Surface Water Data

Manitoba

Donnees sur les eaux de surface

1983

Environment Canada Environnement Canada

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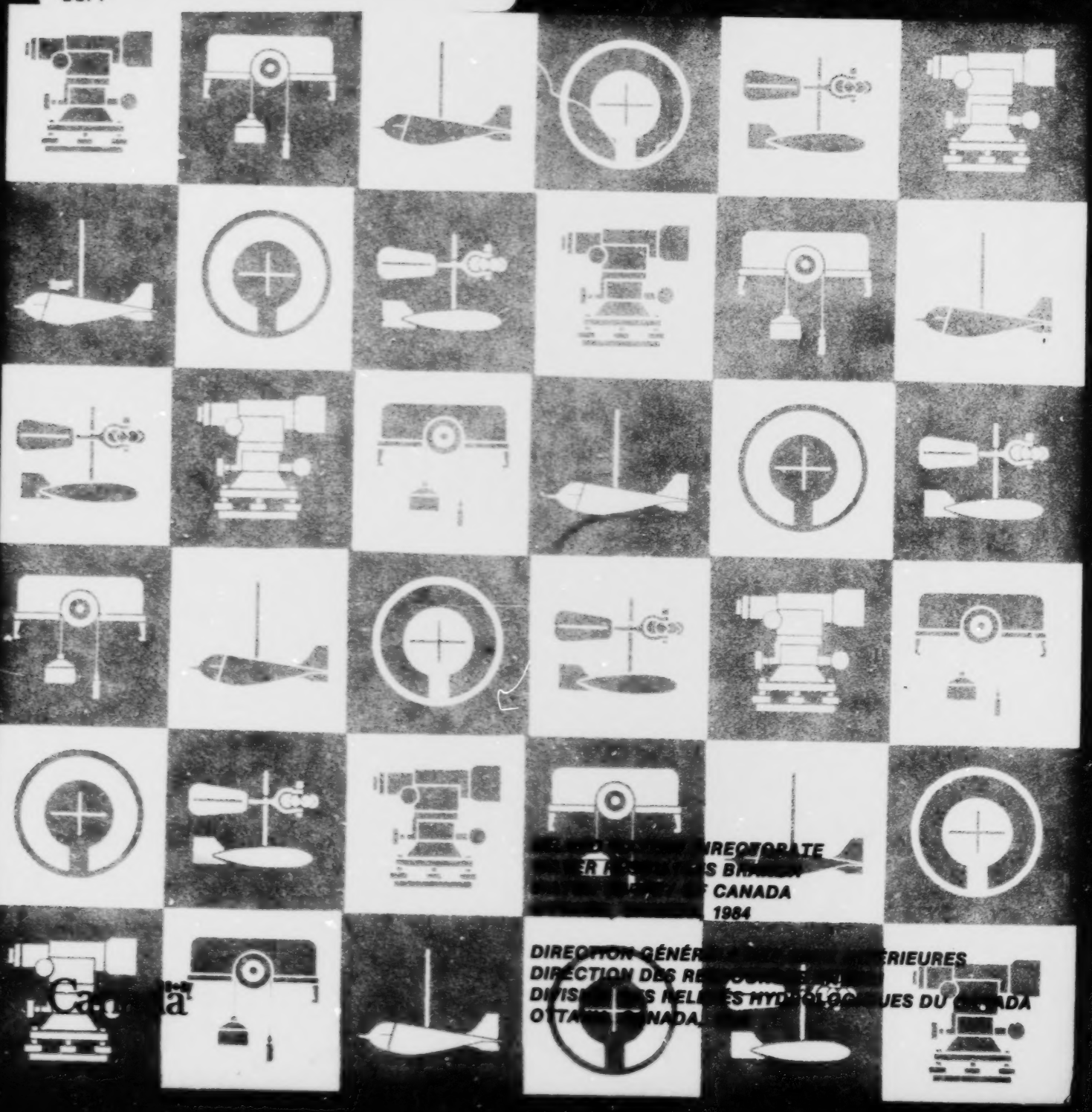

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OTTAWA, CANADA

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Metric Commission Canada has granted use of the National Symbol for Metric Conversion. The metric usage in this text has been reviewed by the Metric Screening Office of the Canadian General Standards Board.

La Commission du système métrique Canada a autorisé l'utilisation du symbole national de conversion au système métrique. Le Service du contrôle métrique de l'Office des normes générales du Canada a revisé l'utilisation du système métrique dans cette publication.

Environment Canada Environnement Canada

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Manitoba

Données sur les eaux de surface

1983

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1984

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1984

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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1983 calendar year, the results of the hydrometric survey investigations which were made in Manitoba by the Water Survey of Canada.

Details on individual stations and related records, as well as recent data which have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

During 1983, the hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

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INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente, pour l'année civile 1983, les résultats des relevés hydrométriques que la Division des relevés hydrologiques du Canada a effectués au Manitoba.

En s'adressant aux endroits ci-après, on peut obtenir des renseignements supplémentaires sur certaines stations particulières et divers relevés, ainsi que des données récentes non encore publiées:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
521 Édifice fédéral
269, rue Main
Winnipeg (Manitoba)
R3C 1B2

ou au Directeur, Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

En 1983, la Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975 and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to the following organizations:

Federal – Department of Public Works;
Department of Regional Economic Expansion, PFRA.

Provincial – Manitoba Hydro, Manitoba;
Department of Mines, Resources and Environmental Management, Water Resources Division, Manitoba.

Municipal – City of Winnipeg Hydro-Electric System, Manitoba.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable aux organismes suivants de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques:

Niveau fédéral – Ministère des Travaux publics,
Ministère de l'Expansion économique régionale (ARAP).

Niveau provincial – Hydro-Manitoba,
Division des ressources en eau du ministère des Mines et des Ressources et de la Gestion de l'environnement du Manitoba.

Niveau municipal – *Hydro-Electric System* de Winnipeg, Manitoba.

CONVERSION FACTORS

The following list of convenient equivalents of measure gives the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit – 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

FACTEURS DE CONVERSION

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2,54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0,404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2,5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259,0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2,4710 acres
1 km^2 (kilomètre carré) équivaut à 0,386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit – 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Conversion Factors".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 270 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Facteurs de conversion».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 270 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are presented in the International System of Units (SI) and future editions will be published biennially. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and the discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). The 1983 edition will be the last hard copy edition; subsequent editions will be published every two years on microfiche only. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

During the years 1948–1960, some sediment data were collected for several prairie rivers to meet the demands of particular projects and the results included in the 1961 publication. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually, the same as for the Surface Water Data publications but in one volume. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI) and will continue to be published on an annual basis.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). L'édition de 1983 sera la dernière édition imprimé sur papier; les éditions suivantes seront disponibles tous les deux ans sur microfiche seulement. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

De 1948 à 1960, certaines données sur les sédiments étaient recueillies de divers cours d'eau des Prairies afin de répondre aux besoins de projets particuliers et les résultats paraissaient dans l'édition de 1961. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement, comme c'est le cas pour les données sur les eaux de surface, mais dans un seul tome. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et la publication va paraître chaque année.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). Future editions will be published every five years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

METHOD OF TABULATION OF SURFACE WATER DATA

For gauging stations where a systematic record of water level or discharge was obtained during the year under review, the following are given where available:

1. Table of daily water level or discharge;
2. Summary of monthly and annual data;
3. Descriptive information.

1. *The table of daily water level* or *discharge* gives the daily water level in metres or the daily discharge in cubic metres per second at the gauging station.

The following standard symbols are used opposite the daily stage or discharge to which they apply:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes vont paraître tous les cinq ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

PRÉSENTATION SOUS FORME DE TABLEAUX DES DONNÉES SUR LES EAUX DE SURFACE

Pour les stations de jaugeage où on a effectué, au cours de l'année étudiée, un relevé systématique du débit ou du niveau, les données suivantes sont présentées, pour autant qu'elles soient disponibles:

1. un tableau du niveau ou du débit quotidien;
2. un extrait des données mensuelles et annuelles;
3. des renseignements descriptifs.

1. *Le tableau du niveau* ou *du débit quotidien* donne la hauteur des eaux, en mètres ou le débit, en mètres cubes par seconde, mesuré à la station de jaugeage.

Les symboles normalisés donnés ci-après sont inscrits à côté des valeurs auxquelles ils se rapportent:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

2. *A summary of monthly and annual data* is given below the table of daily data.

For stations where only water level data are obtained, both a monthly and annual summary are given.

The monthly summary gives:
(a) the mean water level in metres for complete months;
(b) the maximum and minimum daily water level in metres.

The summary for the year gives:
(a) the mean water level in metres for complete years;
(b) the maximum and minimum daily water levels and their dates of first occurrence where applicable;
(c) the maximum instantaneous water level and the time of occurrence where available.

For stations where discharge data are collected, both a monthly and annual summary are given.

The monthly summary gives:
(a) the total of the daily discharge values for complete months;
(b) the mean discharge in cubic metres per second;
(c) the total discharge in cubic decametres;
(d) the maximum and minimum daily discharges in cubic metres per second.

The summary for the year or period gives:
(a) the mean discharge in cubic metres per second;
(b) the total discharge in cubic decametres;
(c) the maximum and minimum daily discharges and their dates of first occurrence;
(d) the maximum instantaneous discharge and the time of occurrence, where available.

3. *The descriptive information* about the gauging station is also given below the table of daily data and will indicate the following where applicable:

International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.
(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.
(c) Power Plant Rating – this indicates that records were obtained using the latest available rating of the Power Plant.

2. *Un extrait des données mensuelles et annuelles* est donné au-dessous du tableau des données quotidiennes.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on n'a mesuré que le niveau.

L'extrait mensuel donne:
(a) le niveau moyen en mètres pour le mois entier, et
(b) les niveaux quotidiens maximal et minimal en mètres.

L'extrait annuel donne:
(a) le niveau moyen en mètres pour l'année entière;
(b) les niveaux quotidiens maximal et minimal ainsi que les dates de leur première observation, s'il y a lieu, et
(c) le niveau maximal instantané et l'heure de l'observation, s'il y a lieu.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on n'a mesuré que le débit.

L'extrait mensuel donne:
(a) le total des valeurs quotidiennes du débit, pour le mois entier;
(b) le débit moyen en mètres cubes par seconde;
(c) le débit total en décamètres cubes, et
(d) les débits quotidiens maximal et minimal en mètres cubes par seconde.

L'extrait annuel ou périodique donne:
(a) le débit moyen en mètres cubes par seconde;
(b) le débit total en décamètres cubes;
(c) les débits quotidiens maximal et minimal ainsi que les dates de première observation, s'il y a lieu, et
(d) le débit maximal instantané et l'heure de l'observation, s'il y a lieu.

3. *Les renseignements descriptifs* sur les stations de jaugeage sont également présentés sous le tableau des données quotidiennes et apportent les précisions qui suivent, s'il y a lieu:

Stations internationales de jaugeage (International Gauging Stations) – Dans les eaux contiguës aux frontières, on a désigné certaines stations comme «internationales», et les données prélevées sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publication et les *United States Water Supply Papers* proviennent de variantes dans les techniques de traitement automatique des données.

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau et le débit d'un cours d'eau:

(a) Manuelle (Manual) – indique qu'un appareil non enregistreur sert à obtenir une fois par jour les données sur le niveau et le débit d'un cours d'eau.
(b) Enregistreuse (Recording) – indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux tracé sur une carte analogique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.
(c) Régime des stations hydrauliques (Power Plant Rating) – indique qu'on a obtenu les données grâce aux valeurs les plus récentes des régimes mesurés dans les stations hydrauliques.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located in appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage Area – this is the latest available drainage area and refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station. For a gauging station on a lake, this refers to the total drainage area at the outlet of the lake.

Contributed Data – if data were supplied in their entirety by an outside agency, the name of the co-operating agency is given.

Natural Flow or *Regulated* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Gauge Datum – for stations where only water level data are available, the name of the datum, to which water levels are referred, is given as well as an equation to convert to another datum if applicable. Detailed information on the description of the bench marks to which water levels are referred is available from the appropriate Regional Chief.

Remarks – unusual conditions which occur at a station are explained.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1980 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à un endroit éloigné de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage Area) – Il s'agit de la superficie du bassin versant déterminée d'après les cartes les plus récentes et désigne la zone délimitée par une ligne de partage des eaux de sorte que l'écoulement d'averse est entraîné par gravité vers le cours d'eau en amont de la station. S'il s'agit d'une station située sur un lac, elle représente la superficie totale jusqu'à l'émissaire du lac.

Données fournies (Contributed Data) – Nom de l'organisme extérieur qui a fourni les données.

Débit naturel ou *régularisé* (Natural Flow or Regulated) – Un débit reconnu comme naturel est indiqué comme tel. Le débit de plusieurs réseaux hydrographiques est modifié par une régularisation qui est effectuée en amont. Il arrive parfois que l'importance de cette régularisation ne soit pas connue, et elle n'est donc pas indiquée. Cependent, quand on sait que la régularisation est d'une certaine importance, on l'indique ainsi que l'année où elle a débuté (si elle est connue).

Plan de référence des jauges (Gauge Datum) – Pour les stations dans lesquelles on ne mesure que le niveau de l'eau, on indique le plan de référence de la jauge en question et l'équation permettant, au besoin, de convertir ce plan en un autre plan. En s'adressant au chef régional concerné, on peut obtenir des renseignements plus précis au sujet des niveaux de référence auxquels correspondent les niveaux mesurés.

Remarques (Remarks) – Les conditions inhabituelles qui prévalent à une station sont expliquées.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1980 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon (1) the stability of the stage-discharge relationship; or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge and interpretation of records. Because of all the variable factors mentioned above, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data.

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, B and E.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

MICROFICHE

All published daily discharge, water level and sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by Region, therefore data for a particular province may include fiche from two or more Regions. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, Region, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur (1) la stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence des mesures de débits, et (2) sur la précision des observations sur les niveaux, des mesures de débits et de l'interprétation des relevés. À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données.

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, B et E.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

MICROFICHE

Toutes les données publiées concernant les débits quotidiens, les niveaux d'eau et les sédiments sont disponibles sur microfiche en unités métriques aux usagers qui en font la demande. Ces données sont emmagasinées par ordre de numéro de station et par région. Les données relatives à une province en particulier peuvent donc inclure des fiches en provenance de deux régions ou plus. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la région, le numéro de la première et de la dernière station, celui de la première et de la dernière année de cueillette ainsi que le mois et l'année de préparation de la fiche. La dernière image donne l'index du contenu de la fiche.

SURFACE WATER DATA/DONNEES SUR LES EAUX DE SURFACE

ANGLING RIVER NEAR BIRD - STATION NO. 05UH001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.460	1.770	1.400	1.150	1.050	281 A	14.9	8.33	23.8	45.7	14.1	6.888	1
2	2.420	1.780	1.400	1.170	1.050	307	14.9	7.93	21.7	41.5	13.5	6.588	2
3	2.380	1.760	1.390	1.170	1.050	306	12.2	7.14	22.2	38.3	14.5	6.408	3
4	2.350	1.720	1.360	1.150	1.050	284	10.7	7.49	25.0	35.5	12.7	6.258	4
5	2.320	1.710	1.350	1.150	1.048	268	10.3	8.23	27.3	32.1	12.9	6.138	5
6	2.270	1.700	1.350	1.150	1.048	222	9.79	7.85	28.8	30.0	13.7	6.008	6
7	2.260	1.680	1.340	1.150	1.048	197	9.28	7.64	29.5	27.9	12.7	5.838	7
8	2.230	1.650	1.340	1.150	1.048	177	8.28	8.95	30.2	26.1	11.6	5.688	8
9	2.210	1.650	1.330	1.150	1.048	164	8.23	7.26	29.3	25.2	11.3 B	5.568	9
10	2.180	1.640	1.330	1.140	1.048	153	7.69	8.64	28.3	24.5	11.1 B	5.508	10
11	2.140	1.630	1.320	1.140	1.048	140	8.61	8.86	30.3	22.4	10.6 B	5.448	11
12	2.110	1.620	1.320	1.130	1.048	123	8.78	9.02	34.8	20.9	10.5 B	5.388	12
13	2.080	1.600	1.300	1.120	1.048	116	7.05	9.05	32.5	20.8	10.2 B	5.288	13
14	2.050	1.590	1.290	1.110	1.038	110	6.60	8.58	31.6	19.4	9.868	5.188	14
15	2.030	1.560	1.280	1.110	1.038	104	5.97	7.38	30.5	18.3	9.718	5.048	15
16	2.020	1.570	1.280	1.110	1.038	97.6	5.87	6.21	28.8	17.8	9.488	4.948	16
17	2.000	1.550	1.280	1.100	1.028	90.6	6.10	6.37	27.9	17.-	9.258	4.848	17
18	1.980	1.540	1.270	1.100	1.148	83.3	5.87	6.28	28.9	16.5	9.038	4.808	18
19	1.960	1.530	1.260	1.100	1.400	72.8	5.56	7.15	33.9	16.0	8.788	4.708	19
20	1.950	1.520	1.260	1.090	1.828	83.7	5.39	9.05	38.6	15.9	8.538	4.608	20
21	1.930	1.510	1.240	1.090	3.808	86.1	4.82	13.0	46.4	15.5	8.298	4.548	21
22	1.920	1.485	1.240	1.080	7.358	68.7	4.64	17.7	51.4	15.6	8.108	4.488	22
23	1.898	1.470	1.230	1.080	13.2 B	63.3	4.28	21.1	55.6	15.1	7.958	4.408	23
24	1.888	1.460	1.220	1.080	23.2 B	57.6	4.20	24.4	59.5	15.6	7.788	4.328	24
25	1.868	1.450	1.220	1.080	35.5 B	53.4	4.23	26.5	61.1	15.3	7.638	4.268	25
26	1.848	1.440	1.220	1.080	51.4 B	47.6	4.05	28.0	59.3	14.7	7.458	4.208	26
27	1.838	1.420	1.210	1.080	76.4 B	45.7	5.58	30.6	58.4	15.0	7.308	4.128	27
28	1.828	1.410	1.210	1.050	98.0 B	43.7	6.97	31.9	56.7	14.7	7.108	4.068	28
29	1.818		1.200	1.050	124 B	39.0	7.38	31.3	53.3	14.7	6.958	4.008	29
30	1.808		1.200	1.050	160 B	18.0	7.78	28.7	49.1	14.8	6.858	3.948	30
31	1.788		1.188		211 E		8.06	26.3		14.3		3.888	31
TOTAL	63.75	44.42	39.85	33.39	834.06	2 695.5	230.12	424.84	1 136.8	678.3	285.92	155.93	TOTAL
MEAN	2.06	1.59	1.29	1.11	26.9	123	7.43	13.7	37.9	21.9	10.0	5.05	MEAN
MAX	2.46	1.77	1.40	1.18	211	307	14.9	31.9	61.1	45.7	14.5	6.88	MAX
MIN	1.78	1.41	1.18	1.05	1.02	18.0	4.23	6.21	21.7	14.3	6.95	3.88	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 20.8
MAXIMUM DAILY, 307 ON JUN 2
MINIMUM DAILY, 1.028 ON MAY 17
MAXIMUM INSTANTANEOUS,
313 AT 18:00 CST ON JUN 2

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 40 39 N
LONG 93 36 20 W
DRAINAGE AREA, 1 630 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	5 510	JUL	19 900
FEB	3 840	AUG	37 600
MAR	3 440	SEP	98 200
APR	2 880	OCT	58 600
MAY	71 200	NOV	25 900
JUN	319 000	DEC	13 600

TOTAL DISCHARGE, 680 000 dam³

ANTLER RIVER NEAR MELITA - STATION NO. 05MF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	0.9088 B	4.91 B	0.334	0.216	0	0	0	0	0B	1
2	0B	0B	0 B	2.07 B	3.50 B	0.323	0.243	0	0	0	0	0B	2
3	0B	0B	0 B	3.90 B	2.62 B	0.298	0.267	0	0	0	0	0B	3
4	0B	0B	0 B	5.29 B	2.12 B	0.284	0.231	0	0	0	0	0B	4
5	0B	0B	0 B	7.94 B	1.76 B	0.251	0.223	0	0	0	0	0B	5
6	0B	0B	0 B	8.35 B	1.60 B	0.231	0.218	0	0	0	0	0B	6
7	0B	0B	0 B	7.91 B	1.45 B	0.211	0.207	0	0	0	0	0B	7
8	0B	0B	0 B	7.93 B	1.31 B	0.205	0.169	0	0	0	0	0B	8
9	0B	0B	0 B	7.35 B	1.19 B	0.196	0.168	0	0	0	0	0B	9
10	0B	0B	0 B	6.61 B	1.12 B	0.189	0.151	0	0	0	0	0B	10
11	0B	0B	0 B	6.59 B	1.04 B	0.132	0.135	0	0	0	0	0B	11
12	0B	0B	0 B	7.18 B	0.988 B	0.110	0.093	0	0	0	0	0B	12
13	0B	0B	0 B	6.35 B	0.940 B	0.077	0.089	0	0	0	0B	0B	13
14	0B	0B	0 B	6.65 B	0.891 B	0.083	0.060	0	0	0	0B	0B	14
15	0B	0B	0.0018 B	7.52 B	0.838 B	0.058	0.039	0	0	0	0B	0B	15
16	0B	0B	0.0028 B	5.28 B	0.788 B	0.068	0.008	0	0	0	0B	0B	16
17	0B	0B	0.0018 B	5.49 B	0.710 B	0.084	0.005	0	0	0	0B	0B	17
18	0B	0B	0 B	4.89 B	0.675 B	0.133	0.002	0	0	0	0B	0B	18
19	0B	0B	0 B	3.81 B	0.675 B	0.178	0.001	0	0	0	0B	0B	19
20	0B	0B	0 B	3.37 B	0.887 B	0.305	0	0	0	0	0B	0B	20
21	0B	0B	0 B	3.08 B	0.858 B	0.229	0	0	0	0	0B	0B	21
22	0B	0B	0 B	2.98 B	0.831 B	0.275	0	0	0	0	0B	0B	22
23	0B	0B	0 B	3.19 B	0.814 B	0.271	0	0	0	0	0B	0B	23
24	0B	0B	0 B	4.83 B	0.801 B	0.384	0	0	0	0	0B	0B	24
25	0B	0B	0.0138 B	7.84 B	0.883 B	0.253	0	0	0	0	0B	0B	25
26	0B	0B	0.0878 B	12.5 B	0.589 B	0.230	0	0	0	0	0B	0B	26
27	0B	0B	0.0788 B	13.8 B	0.548 B	0.211	0	0	0	0	0B	0B	27
28	0B	0B	0.1468 B	10.7 B	0.453 B	0.181	0	0	0	0	0B	0B	28
29	0B		0.2448 B	7.43 B	0.414 B	0.171	0	0	0	0	0B	0B	29
30	0B		0.4048 B	8.72 B	0.378 B	0.310	0	0	0	0	0B	0B	30
31	0B		0.6378 B		0.373 B		0	0	0	0		0B	31
TOTAL	0	0	1.589	188.018	36.317	5.841	2.438	0	0	0	0	0	TOTAL
MEAN	0	0	0.051	6.27	1.14	0.195	0.079	0	0	0	0	0	MEAN
MAX	0	0	0.637	13.8	4.91	0.334	0.387	0	0	0	0	0	MAX
MIN	0	0	0	0.908	0.373	0.068	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.639
MAXIMUM DAILY, 13.5 ON APR 27
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
13.8 AT 07:27 CST ON APR 27

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 34 N
LONG 101 02 56 W
DRAINAGE AREA, 3 210 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	210
FEB	0	AUG	0
MAR	137	SEP	0
APR	16 200	OCT	0
MAY	3 040	NOV	0
JUN	505	DEC	0

TOTAL DISCHARGE, 20 100 dam³

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05ME001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0.0158	2.98	0.100	0.033	0	0	0	---	---	1
2	---	---	0B	0.0308	2.84	0.103	0.049	0	0	0	---	---	2
3	---	---	0B	0.0458	2.30	0.142	0.095	0	0	0	---	---	3
4	---	---	0B	0.0608	2.01	0.140	0.083	0	0	0	---	---	4
5	---	---	0B	0.1008	1.69	0.115	0.061	0	0	0	---	---	5
6	---	---	0B	0.1478	1.34	0.084	0.042	0	0	0	---	---	6
7	---	---	0B	0.7268	1.01	0.071	0.030	0	0	0	---	---	7
8	---	---	0B	1.85 B	0.794	0.070	0.023	0	0	0	---	---	8
9	---	---	0B	3.53 B	0.677	0.052	0.024	0	0	0	---	---	9
10	---	---	0B	5.13 B	0.581	0.084	0.103	0	0	0	---	---	10
11	---	---	0B	5.20 B	0.482	0.054	0.150	0	0	0	---	---	11
12	---	---	0B	5.11 B	0.489	0.042	0.139	0	0	0	---	---	12
13	---	---	0B	2.93 B	0.481	0.035	0.081	0	0	0	---	---	13
14	---	---	0B	2.21 B	0.486	0.035	0.077	0	0	0	---	---	14
15	---	---	0B	1.55 B	0.438	0.034	0.031	0	0	0	---	---	15
16	---	---	0B	1.13 B	0.457	0.031	0.023	0	0	0	---	---	16
17	---	---	0B	1.20 B	0.540	0.028	0.018	0	0	0	---	---	17
18	---	---	0B	1.38	0.458	0.023	0.020	0	0	0	---	---	18
19	---	---	0B	1.89	0.377	0.023	0.021	0	0	0	---	---	19
20	---	---	0B	3.64	0.358	0.023	0.018	0	0	0	---	---	20
21	---	---	0B	4.71	0.358	0.023	0.014	0	0	0	---	---	21
22	---	---	0B	6.06	0.322	0.025	0.011	0	0	0	---	---	22
23	---	---	0B	5.42	0.297	0.024	0.009	0	0	0	---	---	23
24	---	---	0B	3.35	0.284	0.024	0.008	0	0	0	---	---	24
25	---	---	0B	2.11	0.242	0.022	0.001	0	0	0	---	---	25
26	---	---	0B	1.74	0.233	0.020	0	0	0	0	---	---	26
27	---	---	0B	2.39	0.289	0.018	0	0	0	0	---	---	27
28	---	---	0B	2.78	0.415	0.017	0	0	0	0.001	---	---	28
29	---		0B	3.08	0.287	0.016	0	0	0	0.008	---	---	29
30	---		0B	3.09	0.186	0.028	0	0	0	0.002	---	---	30
31	---		0B		0.143		0		0	0.001		---	31
TOTAL	---	---	0	73 823	23 580	1.494	1.155	0	0	0.010	---	---	TOTAL
MEAN	---	---	0	2.45	0.761	0.050	0.038	0	0	0	---	---	MEAN
MAX	---	---	0	6.13	2.98	0.142	0.150	0	0	0.008	---	---	MAX
MIN	---	---	0	0.015	0.143	0.016	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.408
MAXIMUM DAILY, 6.130 ON APR 10
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 05 10 N
LONG 100 57 30 W
DRAINAGE AREA, 871 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	101
FEB	---	AUG	0
MAR	0	SEP	0
APR	6 380	OCT	0.86
MAY	2 040	NOV	---
JUN	129	DEC	---

TOTAL DISCHARGE, 8 830 dam³

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05NJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	21.28	21.98	22.18	58.68	202	132	66.0	37.1	32.7	28.8	20.4	18.08	1
2	21.68	22.68	21.68	63.08	201	131	63.0	36.6	32.8	30.1	22.0	13.78	2
3	21.88	22.68	21.48	78.28	201	128	58.5	39.9	31.8	29.2	25.8	12.58	3
4	21.88	22.68	21.88	96.68	200	120	55.1	40.4	31.6	28.1	29.5	15.38	4
5	22.28	22.28	22.28	112 B	200	111	51.6	40.6	30.7	28.9	32.9	21.18	5
6	22.58	21.68	23.18	117 B	199	111	47.9	40.2	28.7	30.0	33.7	21.98	6
7	22.48	21.58	24.68	113 B	193	107	41.7	40.1	29.2	28.6	35.2	20.78	7
8	22.68	21.38	24.28	105 B	189	104	42.3	39.8	30.0	27.4	36.8	19.88	8
9	22.58	21.28	24.08	103 B	189	101	42.3	39.4	31.5	26.4	38.3	20.18	9
10	22.58	21.28	24.48	101 B	187	98.2	40.7	40.4	33.6	28.2	39.0	19.68	10
11	22.58	21.58	25.98	117 B	180	90.8	38.0	40.1	33.8	25.9	37.3	20.38	11
12	22.58	21.28	26.28	124 B	178	86.8	36.7	39.8	32.6	25.2	35.9	20.68	12
13	22.18	21.38	25.88	112 B	183	84.4	35.0	39.6	30.0	25.3	35.6	21.48	13
14	22.68	21.68	25.88	114 B	187	81.0	33.0A	39.2	29.7	25.3	35.0	21.08	14
15	22.98	21.78	26.48	143 B	187	75.2	28.0	39.0	31.5	24.6	34.2	20.48	15
16	22.98	21.48	27.28	186 B	187	74.0	29.7	38.8	31.4	24.1	33.2	19.88	16
17	22.48	21.48	26.18	180 B	185	77.7	30.7	38.6	33.2	23.1	33.1	19.98	17
18	22.58	21.88	26.88	179 B	181	77.6	30.5	39.1	34.8	22.4	33.2	20.68	18
19	22.48	22.28	29.18	213	178	77.1	29.5	37.7	34.9	22.3	32.4	21.28	19
20	22.78	22.58	28.58	182	178	78.6	29.8	38.4	34.7	22.6	32.3	21.28	20
21	23.08	22.58	26.18	167	178	78.5	30.7	40.5	33.0	22.8	31.8	20.98	21
22	22.68	22.08	26.58	161	172	87.5	30.6	40.1	33.3	22.7	31.08	20.08	22
23	22.18	21.08	26.38	136	169	90.0	28.9	38.7	33.2	22.4	30.88	19.58	23
24	21.98	21.48	27.88	141	165	82.2	28.3	39.0	31.5	22.2	21.08	19.38	24
25	21.58	22.08	27.98	181	162	78.6	28.7	38.9	29.5	21.3	23.88	19.38	25
26	21.58	22.28	28.68	187	157	77.5	29.4	38.7	27.7	21.0	19.98	19.28	26
27	22.08	22.38	29.38	189	152	76.4	30.3	38.4	26.9	21.0	12.18	19.08	27
28	22.48	22.48	30.28	194	151	72.1	30.8	37.3	27.0	20.6	13.08	19.18	28
29	23.18		31.68	189	148	68.2	30.5	36.5	26.6	19.3	23.28	18.78	29
30	23.18		38.48	202	145	67.6	32.0	35.1	27.2	21.2	20.88	18.08	30
31	22.18		47.68		139		34.1	33.4		20.1		17.48	31
TOTAL	692.2	611.1	845.5	4 157.4	5 521	2 732.9	1 188.1	1 204.2	936.2	781.0	886.4	597.6	TOTAL
MEAN	22.3	21.8	27.3	139	178	91.1	37.8	38.8	31.2	24.5	29.5	19.3	MEAN
MAX	23.1	22.8	47.6	213	202	132	66.0	40.6	34.9	30.1	39.3	21.9	MAX
MIN	21.2	21.0	21.4	58.6	139	67.6	28.0	33.4	26.6	19.3	12.1	12.5	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 55.1
MAXIMUM DAILY, 213 ON APR 19
MINIMUM DAILY, 12.18 ON NOV 27
MAXIMUM INSTANTANEOUS,
236 AT 11:16 CST ON APR 19

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 09 N
LONG 97 24 10 W
DRAINAGE AREA, 153 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	89 800	JUL	101 000
FEB	62 800	AUG	104 000
MAR	73 100	SEP	80 900
APR	359 000	OCT	65 800
MAY	477 000	NOV	78 600
JUN	236 000	DEC	51 600

TOTAL DISCHARGE, 1 740 000 dam³

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	18.78	18.08	18.08	34.58	138	74.3	26.7	33.5	19.5	11.2	20.1	17.98	1
2	19.18	18.88	18.18	38.18	124	72.7	28.3	33.5	17.4	10.9	21.4	16.08	2
3	19.08	19.48	18.48	41.58	113	72.2	28.0	33.5	15.5	10.8	23.0	17.88	3
4	18.98	19.58	18.38	46.38	109	70.9	25.4	33.6	14.0	10.9	23.8	17.48	4
5	18.78	19.48	18.09	55.28	106	69.6	22.7	33.6	12.9	11.6	23.7	17.28	5
6	19.28	19.18	18.78	62.28	104	68.8	21.0	34.0	11.3	12.3	23.5	17.68	6
7	19.78	19.28	20.48	68.58	104	67.9	20.0	34.2	10.1	12.7	23.8	17.78	7
8	19.88	19.08	20.18	76.48	105	66.9	19.7	34.5	9.30	12.8	23.4	16.68	8
9	19.88	19.08	19.98	93.08	106	65.8	19.6	34.5	8.87	12.9	23.4	16.68	9
10	19.78	18.98	19.58	98.08	106	65.0	20.3	34.6	8.87	12.9	23.2	16.88	10
11	19.68	18.98	19.48	86.48	104	64.2	20.1	34.6	8.40	12.8	22.9	17.28	11
12	19.48	18.98	18.88	84.08	103	63.9	19.1	34.6	8.57	12.9	23.0	17.18	12
13	19.48	19.18	17.78	81.48	103	63.3	18.6	34.4	8.35	13.4	23.0	16.58	13
14	19.58	19.08	17.18	78.48	101	62.4	18.3	33.9	8.31	13.6	22.9	15.88	14
15	19.68	19.08	17.78	71.88	98.8	60.9	18.8	33.7	9.54	13.6	22.8	15.08	15
16	19.48	19.08	18.38	73.98	97.5	60.1	20.4	33.0	11.1	13.5	22.9	14.88	16
17	18.58	18.68	18.58	68.3	96.1	59.3	20.7	32.4	11.8	13.3	22.6	14.88	17
18	18.38	18.18	18.78	63.6	94.8	58.9	21.0	31.5	11.4	13.0	22.7	15.18	18
19	19.18	17.88	18.88	59.3	92.5	58.6	22.4	30.5	10.4	12.9	22.4	15.18	19
20	19.78	17.48	18.98	54.8	91.4	58.0	24.0	29.4	10.2	12.9	22.2	15.28	20
21	19.98	17.58	18.98	86.9	91.4	56.3	25.5	28.4	10.7	12.7	22.0	15.28	21
22	19.98	17.68	18.78	133	91.0	55.6	26.2	26.3	11.1	12.4	20.38	14.88	22
23	19.88	17.28	18.78	153	90.5	53.4	26.1	27.2	11.3	12.4	17.88	14.58	23
24	19.78	16.88	19.18	176	89.4	51.8	27.0	26.6	11.2	12.6	18.08	14.58	24
25	19.68	16.88	18.98	187	87.8A	51.5	29.0	26.4	11.0	12.8	21.78	14.98	25
26	19.48	17.68	21.78	190	85.3A	47.9	31.7	26.1	10.8	13.6	21.38	15.08	26
27	19.48	18.08	23.98	187	83.4	42.1	33.2	25.5	10.2	14.8	21.18	17.38	27
28	19.48	18.28	25.88	179	81.4	35.6	33.4	25.1	9.96	16.5	19.68	18.28	28
29	19.38		27.38	169	79.3	31.2	33.5	24.0	10.1	18.2	19.18	18.68	29
30	18.78		26.48	154	77.5	29.7	34.1	22.2	10.7	19.0	18.48	18.88	30
31	18.08		30.98		76.0		33.8	20.4		19.3		18.88	31
TOTAL	598.4	515.6	626.6	2 961.5	3 030.2	1 759.1	770.6	948.7	332.89	415.0	656.0	511.6	TOTAL
MEAN	19.3	18.4	20.2	98.7	97.7	58.6	24.9	30.6	11.1	13.4	21.9	16.5	MEAN
MAX	19.9	19.5	30.9	190	138	74.3	34.1	34.6	19.5	19.3	23.8	18.8	MAX
MIN	18.0	16.8	17.1	34.5	76.0	29.7	18.3	20.4	8.31	10.8	17.6	14.5	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 36.0
MAXIMUM DAILY, 190 ON APR 26
MINIMUM DAILY, 8.31 ON SEP 14
MAXIMUM INSTANTANEOUS,
191 AT 10:45 CST ON APR 26

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 20 N
LONG 100 06 10 W
DRAINAGE AREA, 85 700 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	51 700	JUL	66 600
FEB	44 500	AUG	82 000
MAR	54 100	SEP	28 800
APR	256 000	OCT	35 900
MAY	262 000	NOV	56 700
JUN	152 000	DEC	44 200

TOTAL DISCHARGE, 1 130 000 dam³

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	23.18	24.48	20.08	86.08	274	129	51.3	48.0	35.1	30.0	33.6	30.98	1
2	23.18	23.38	19.78	131 B	256	121	48.3	47.7	34.4	31.3	35.5	30.58	2
3	23.38	23.18	19.88	163 B	237	115	45.6	46.9	33.0	31.1	36.9	29.68	3
4	23.78	22.78	19.88	188 B	221	111	45.0	46.5	31.1	29.8	39.5	28.78	4
5	23.88	22.78	19.58	192 B	209	108	43.7	46.2	28.9	28.6	42.4	28.28	5
6	23.98	22.58	23.68	199 B	204	105	42.0	45.9	27.3	27.9	43.4	27.38	6
7	23.88	23.08	26.38	208 B	200	100	39.6	46.3	25.8	27.4	42.1	26.98	7
8	23.88	22.28	29.48	226 B	196	94.4	36.8	45.8	24.6	27.0	40.6	26.08	8
9	24.28	22.88	27.68	281 B	194	89.2	34.8	45.9	24.3	27.0	39.7	25.28	9
10	24.48	23.28	27.28	308 B	194	85.5	34.7	45.8	24.0	26.6	39.1	24.38	10
11	24.68	23.28	28.98	334 A	194	82.8	34.2	45.7	24.1	25.8	38.3	23.38	11
12	25.28	22.58	30.28	272 A	193	80.8	33.5	45.7	24.1	25.5	37.7	22.28	12
13	25.08	22.78	30.68	245	195	78.0	32.4	45.2	25.6	24.6	37.0	21.08	13
14	24.78	21.68	31.48	224	195	79.1	31.3	45.0	27.9	23.6	36.2	19.98	14
15	24.78	22.78	31.48	212	190	78.6	30.1	44.9	31.3	23.4	35.9	18.78	15
16	25.18	22.78	29.58	200	188	78.5	30.5	45.3	32.4	23.6	35.4	17.18	16
17	25.08	22.78	28.98	190	184	78.2	31.2	45.5	33.4	23.6	35.3	16.18	17
18	25.38	21.68	30.28	183	182	78.0	32.6	45.1	33.7	23.7	35.2	14.58	18
19	25.18	20.48	30.18	178	181	77.6	31.9	44.2	34.5	23.3	34.7	13.88	19
20	24.88	20.88	29.68	173	181	76.7	31.3	43.4	33.8	22.8	34.8	14.18	20
21	24.58	21.88	29.98	172	177	75.8	31.8	44.0	31.9	22.3	35.6	14.38	21
22	24.98	21.48	30.58	185	174	76.9	33.2	43.6	29.8	22.0	35.08	14.78	22
23	25.68	21.38	30.78	224	171	78.1	34.7	42.8	28.2	22.0	32.78	14.48	23
24	25.48	20.78	31.88	255	169	76.3	35.7	42.4	27.4	22.0	25.68	15.18	24
25	25.28	20.68	33.18	272	164	73.0	35.9	41.8	27.0	21.9	14.28	15.08	25
26	25.08	20.08	36.18	286	160	70.3	36.6	40.5	26.0	21.7	17.08	14.68	26
27	24.88	18.68	40.78	296	154	68.6	36.3	38.8	26.1	21.4	19.58	14.88	27
28	24.18	20.08	41.98	298	152	65.7	41.7	37.2	27.3	21.3	24.38	15.78	28
29	25.08		48.78	295	145	61.1	44.7	37.1	28.0	22.8	29.68	16.28	29
30	25.18		56.28	287	140	55.9	46.6	37.2	29.0	25.7	31.38	19.88	30
31	24.68		93.68		135		47.5	36.8		31.1		19.58	31
TOTAL	761.3	615.4	1 008.9	5 755.0	5 809	2 549.5	1 167.8	1 357.0	869.8	781.0	1 018.3	634.4	TOTAL
MEAN	24.6	22.0	32.5	225	187	85.0	37.7	43.8	29.0	25.2	33.9	20.5	MEAN
MAX	25.8	24.4	93.6	334	274	129	51.3	48.0	35.1	31.3	43.4	30.9	MAX
MIN	23.1	18.6	19.5	86.0	135	55.9	30.1	36.8	24.0	21.3	14.2	13.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 83.8
MAXIMUM DAILY, 334A ON APR 11
MINIMUM DAILY, 13.88 ON DEC 19

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 54 N
LONG 98 53 56 W
DRAINAGE AREA, 152 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	85 800	JUL	101 000
FEB	83 200	AUG	117 000
MAR	87 200	SEP	75 200
APR	584 000	OCT	87 500
MAY	582 000	NOV	88 000
JUN	220 000	DEC	84 800

TOTAL DISCHARGE, 2 020 000 dam³

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05MD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	15.98	17.48	15.08	35.18	83.6	59.6A	18.0	32.5E	13.2	19.2	23.1	17.48	1
2	16.98	16.68	14.88	35.98	70.5	58.8	16.9	32.5E	11.5	11.2	23.1	17.38	2
3	17.48	16.48	14.28	35.68	73.5	58.4	15.4	32.5E	9.78	11.6	23.1	17.28	3
4	17.48	16.58	15.28	29.68	73.3	58.3	15.5	32.5E	9.08	11.6	23.2	17.08	4
5	17.28	16.08	15.58	21.08	77.5	57.5	15.5	32.5E	8.65	11.7	23.3	16.98	5
6	17.28	15.98	15.78	17.38	81.7	57.1	15.3	32.2E	8.34	11.7	23.1	16.88	6
7	17.28	15.98	15.68	17.38	82.9	56.7	15.0	33.0E	8.15	11.5	22.9	16.78	7
8	17.18	15.88	15.78	18.38	83.4	56.4	14.7	31.8E	8.11	11.6	22.8	16.68	8
9	17.08	16.08	13.78	25.38	84.1	55.7	14.2	31.5E	7.83	12.4	22.7	16.48	9
10	16.98	16.78	11.78	34.88	83.5	55.6	14.1	31.3E	7.63	12.6	22.6	16.38	10
11	17.08	16.88	15.08	47.28	82.6	54.9	14.0	31.0E	8.07	12.7	22.6	16.28	11
12	16.88	16.48	15.58	51.48	82.9	54.2	16.3	30.8E	9.64	12.5	22.6	16.18	12
13	15.48	16.38	16.88	47.88	83.0	53.5	18.4	30.6E	10.1	12.4	22.6	16.08	13
14	14.48	15.38	15.88	42.78	82.0	53.0	17.3	30.3E	10.2	12.3	22.5	15.98	14
15	16.68	14.78	17.28	38.88	80.1	52.9	18.0	30.1E	10.0	12.3	22.5	15.98	15
16	17.48	14.88	16.08	35.98	78.4	52.8	20.3	29.6E	9.52	12.0	22.3	16.03	16
17	17.08	14.98	16.48	33.68	78.2	53.3	21.7	29.2E	9.87	11.8	22.2	16.08	17
18	16.68	15.18	16.88	32.28	78.0	51.8	22.9	28.8A	10.4	11.7	22.1	16.08	18
19	17.08	15.28	16.78	35.0	77.6	49.1	23.8	27.9	10.4	11.8	22.0	15.18	19
20	16.58	14.88	19.68	42.1	76.7	47.1	24.1	26.6	10.4	11.8	21.7	16.18	20
21	16.78	13.48	22.28	70.8	75.5	45.9	24.5	26.0	10.4	11.9	20.8	16.18	21
22	17.28	14.98	25.18	127	74.6	45.3	26.8	25.4	10.1	12.9	20.3	16.28	22
23	17.18	16.18	27.18	136	71.1	44.4	31.0	25.2	9.26	14.0	19.2	16.28	23
24	17.08	15.88	26.58	144	69.8	37.6	32.1	24.7	8.58	15.1	19.0	17.78	24
25	16.08	15.38	29.48	142	67.1	27.8	32.1	24.4	8.38	17.7	18.88	19.28	25
26	15.78	15.28	30.08	128	65.9	24.2	32.3	22.7	8.46	18.9	18.68	19.18	26
27	15.88	15.18	31.28	103	64.7	23.2	32.3	19.8	9.47	19.1	18.38	19.08	27
28	14.58	15.18	33.18	84.8	63.7	22.8	32.2A	18.7	9.33	19.2	18.18	18.98	28
29	15.98		34.48	72.2	62.3	22.5	32.3E	17.7	9.20	18.9	17.88	18.88	29
30	17.28		34.68	65.4	61.1	21.7	32.4E	18.2	9.31	22.3	17.68	18.78	30
31	17.68		34.78		60.4A		32.4E	13.7		22.9		18.58	31
TOTAL	515.5	436.0	653.2	1 761.1	2 310.1	1 411.6	690.8	849.7	285.84	431.2	641.5	527.3	TOTAL
MEAN	16.7	15.6	21.1	58.4	74.5	47.1	22.3	27.4	9.53	13.9	21.4	17.0	MEAN
MAX	17.6	17.4	34.7	144	84.1	59.6	32.4	32.5	13.2	22.9	33.3	19.2	MAX
MIN	14.4	13.4	11.7	17.3	60.4	21.7	14.0	13.7	7.63	10.2	17.6	15.9	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 28.8
MAXIMUM DAILY, 144 ON APR 24
MINIMUM DAILY, 7.63 ON SEP 10
MAXIMUM INSTANTANEOUS,
145 AT 22:08 CST ON APR 24

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 39 N
LONG 101 02 08 W
DRAINAGE AREA, 76 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	44 600	JUL	59 700
FEB	37 800	AUG	73 400
MAR	56 400	SEP	24 700
APR	151 000	OCT	37 300
MAY	200 000	NOV	55 400
JUN	122 000	DEC	45 600

TOTAL DISCHARGE, 908 000 dam³

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	22.78	25.38	20.78	85.88	202	130	60.0	42.1	34.5	29.4	28.4	25.78	1
2	22.48	25.38	21.38	87.18	201	126	56.2	42.9	34.1	29.2	29.9	26.78	2
3	22.48	24.98	22.58	98.28	201	115	54.3	43.2	33.1	30.3	32.0	26.58	3
4	23.08	24.38	22.88	107 B	201	113	50.8	43.1	31.8	30.7	32.6	25.78	4
5	23.08	24.18	23.28	105 B	197	112	45.3	42.7	31.4	29.4	33.8	24.88	5
6	23.18	24.08	23.78	95.28	191	108	44.9	42.8	31.9	28.4	36.4	24.58	6
7	23.28	24.18	24.28	84.38	190	106	45.4	41.7	32.7	27.4	37.4	24.48	7
8	23.28	23.98	25.08	84.08	191	102	43.8	42.5	34.6	27.1	37.3	24.58	8
9	23.38	24.18	26.58	89.68	184	97.2	42.3	42.6	35.1	26.8	36.2	24.88	9
10	23.48	23.88	27.38	105 B	180	91.7	40.7	42.0	33.6	26.5	35.0	25.08	10
11	23.18	24.18	26.88	112 B	183	87.9	39.4	42.0	31.7	26.8	34.3	25.28	11
12	23.88	24.48	26.38	116 B	187	85.2	37.6	41.8	30.6	28.4	33.5	24.38	12
13	24.08	24.68	27.28	126 B	189	78.8	32.8	41.3	32.3	25.5	33.3	23.88	13
14	24.18	24.58	26.38	105 B	188	73.7	34.4	41.3	31.9	25.0	32.3	23.58	14
15	24.18	24.48	26.98	152 B	187	74.8	35.6	40.6	33.1	24.3	31.7	23.88	15
16	24.18	24.38	29.88	180 B	185	79.6	35.4	41.2	35.3	23.7	31.6	23.88	16
17	23.78	24.28	30.38	158	181	79.1	34.2	40.4	35.1	23.8	31.3	23.68	17
18	24.18	24.08	30.18	152	179	76.7	34.5	40.2	34.7	23.9	31.2	23.58	18
19	24.68	23.68	28.78	150	177	78.5	35.2	40.2	33.1	23.9	31.2	23.48	19
20	24.68	23.18	30.18	146	178	78.3	35.7	40.2	33.4	23.6	31.2	23.38	20
21	24.18	21.88	30.48	142	173	77.5	34.3	40.4	33.5	23.4	31.08	23.38	21
22	24.08	21.68	30.38	140	170	78.0	33.3	39.6	32.1	23.1	30.68	23.28	22
23	23.88	22.38	30.28	145	166	76.8	32.4	39.3	30.1	22.7	27.78	23.18	23
24	23.98	22.48	30.68	179	162	76.6	34.3	40.6	28.4	22.8	15.68	23.08	24
25	24.38	22.28	31.08	201	155	76.9	34.9	39.9	27.6	22.6	17.88	23.08	25
26	24.78	22.08	31.88	202	154	74.2	35.3	38.6	27.5	22.2	25.78	22.98	26
27	25.28	21.88	33.28	188	152	71.3	36.3	37.9	27.7	21.0	19.98	22.88	27
28	25.68	21.88	35.28	204	148	68.2	35.9	36.9	27.8	23.0	25.68	22.88	28
29	24.78		36.68	204	145	65.4	36.9	35.6	28.3	21.7	24.58	22.78	29
30	24.28		41.88	202	136	64.6	35.9	34.8	30.1	21.7	24.48	22.68	30
31	24.68		50.38		133		41.1	35.2		23.1		22.58	31
TOTAL	739.4	660.6	908.2	4 204.2	5 484	2 630.2	1 233.0	1 254.1	957.0	778.8	902.6	742.3	TOTAL
MEAN	23.9	23.6	29.3	140	178	87.7	39.8	40.5	31.9	25.1	30.1	23.9	MEAN
MAX	25.6	25.3	50.3	204	202	130	60.0	43.2	35.3	30.7	37.4	26.7	MAX
MIN	22.4	21.6	20.7	85.8	133	64.6	32.8	34.8	27.6	21.0	15.6	22.5	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 58.1
MAXIMUM DAILY, 204 ON APR 28
MINIMUM DAILY, 15.68 ON NOV 24
MAXIMUM INSTANTANEOUS,
205 AT 08:26 CST ON APR 28

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 56 09 N
LONG 98 16 48 W
DRAINAGE AREA, 152 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	63 900	JUL	107 000
FEB	57 100	AUG	108 000
MAR	76 500	SEP	82 700
APR	363 000	OCT	87 300
MAY	472 000	NOV	78 000
JUN	227 000	DEC	64 100

TOTAL DISCHARGE, 1 770 000 dam³

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	12.5 B	10.5 B	8.208	8.328	25.7	37.3	6.41	23.1	4.09	3.64	15.0	10.78	1
2	11.9 B	9.398	8.670	9.598	25.9	37.5	6.62	23.2	4.02	3.60	14.9	10.68	2
3	11.4 B	9.998	7.668	9.26	33.8A	37.5	6.61	23.1	3.94	3.58	15.1	10.68	3
4	11.6 B	9.078	7.398	9.18	37.4	37.4	6.38	23.0	3.91	3.58	15.1	10.58	4
5	11.1 B	9.508	7.448	9.22	37.9	37.4	6.12	22.8	3.83	3.59	15.0	10.58	5
6	10.6 B	9.438	7.168	9.26	37.9	37.4	6.11	22.5	3.83	3.54	14.9	10.58	6
7	10.4 B	11.1 B	2.228	9.27	37.9	37.5	6.01	22.3	3.83	3.54	14.9	10.58	7
8	10.4 B	10.5 B	8.688	9.56	37.9	37.5	5.95	22.1	3.85	3.52	14.4	10.48	8
9	10.6 B	10.3 B	13.0 B	4.35	38.1	37.5	7.83	21.8	3.90	3.50	13.9	10.48	9
10	9.648	10.6 B	11.3 B	4.84	37.9	37.6	12.8	21.8	3.92	3.57	13.9	10.48	10
11	5.158	8.828	10.2 B	4.23	37.7	37.5	9.10	21.4	3.74	3.54	13.9	10.48	11
12	8.988	8.178	11.0 B	3.46	37.9	38.0	8.81	21.2	3.75	3.48	13.9	10.38	12
13	12.1 B	8.638	12.0 B	3.13	38.1	38.0	12.0	20.8	3.72	3.50	14.0	10.38	13
14	10.8 B	8.788	11.2 B	3.01	37.8	37.7	14.8	20.6	3.66	3.52	14.0	10.28	14
15	9.588	9.048	10.4 B	3.37	37.5	37.6	15.7	20.6	3.65	3.54	13.9	10.28	15
16	10.5 B	8.788	12.4 B	3.68	37.8	37.7	16.2	20.2	3.61	3.56	13.8	10.18	16
17	8.828	7.608	14.3 B	3.96	37.7	37.7	16.3	20.2	3.65	3.52	13.9	10.18	17
18	8.518	5.688	14.2 B	4.13	37.6	37.7	16.	19.9	3.61	3.52	12.8	10.08	18
19	10.9 B	8.048	15.5 B	5.08	37.3	37.8	16.3/	19.9	3.55	3.54	12.3	10.28	19
20	10.4 B	11.0 B	17.5 B	7.29	37.3	37.8	19.8	19.7	3.53	3.91	12.2	12.48	20
21	10.4 B	10.3 B	19.6 B	14.4	37.3	37.6	23.0	19.7	3.51	4.85	12.2	14.58	21
22	10.4 B	8.848	21.6 B	18.4	37.2	22.8	23.1	19.6	3.51	7.33	12.1	14.58	22
23	10.6 B	8.468	23.6 B	17.2	37.1	14.7	22.9	19.4	3.50	9.18	12.1	14.48	23
24	8.908	8.158	29.3 B	14.1	37.0	14.2	23.0	15.3	3.52	9.20	11.9	14.48	24
25	8.508	7.958	27.3 B	11.1	37.0A	14.5	22.9	13.5	3.48	9.21	11.1	14.38	25
26	8.838	8.138	25.8 B	8.98	37.1	14.3	23.0	13.2	3.47	9.27	11.08	14.38	26
27	11.0 B	8.138	24.5 B	7.56	37.0	14.3	23.0	9.83	3.49	12.9	10.98	14.28	27
28	11.9 B	6.538	23.3 B	6.71	37.0	9.34	23.0	8.01	3.62	14.8	10.98	14.28	28
29	10.9 B		22.9 B	13.6	37.1	6.50	23.0	7.83	3.53	14.9	10.88	14.18	29
30	9.728		22.0 B	23.6	37.2	6.51	23.2	6.00	3.80	14.8	10.78	14.18	30
31	9.998		22.4 B		37.2		23.2	4.29		15.0		14.08	31
TOTAL	317.12	252.62	474.74	218.07	1 134.7	906.85	469.25	567.11	111.02	192.73	395.5	386.3	TOTAL
MEAN	10.2	9.02	15.3	7.27	36.6	30.2	15.1	18.3	3.70	6.22	13.2	11.8	MEAN
MAX	12.5	11.1	29.3	23.8	38.1	38.0	23.2	23.2	4.09	15.0	15.1	14.5	MAX
MIN	5.15	5.68	2.22	3.01	25.7	6.50	5.95	4.29	3.47	3.48	10.7	10.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 14.8
MAXIMUM DAILY, 38.1 ON MAY 9
MINIMUM DAILY, 2.228 ON MAR 7
MAXIMUM INSTANTANEOUS,
39.3 AT 21:31 CST ON JUN 13

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 48 35 N
LONG 101 26 10 W
DRAINAGE AREA, 19 300 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1969

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	27 400	JUL	40 500
FEB	21 800	AUG	49 000
MAR	41 000	SEP	9 590
APR	18 800	OCT	16 700
MAY	98 000	NOV	34 200
JUN	78 400	DEC	31 800

TOTAL DISCHARGE, 467 000 dam³

ATHAPAPUSKOW LAKE AT CRANBERRY PORTAGE - STATION NO. 05KG005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	291.840	291.846	291.849	291.892	292.038	292.096	292.089	291.939	291.907	291.822	291.838	1
2	---	291.836	291.848	291.847	291.892	292.032	292.098	292.085	291.934	291.898	291.807	291.825	2
3	---	291.834	291.848	291.850	291.902	292.043	292.101	292.076	291.961	291.891	291.809	291.822	3
4	---	291.834	291.851	291.849	291.905	292.055	292.097	292.083	291.942	291.894	291.813	291.818	4
5	---	291.833	291.850	291.848	291.910	292.059	292.095	292.078	291.942	291.906	291.826	291.815	5
6	---	291.833	291.851	291.846	291.912	292.056	292.088	292.068	291.934	291.891	291.816	291.816	6
7	---	291.833	291.859	291.847	291.910	292.052	292.080	292.078	291.948	291.887	291.827	291.815	7
8	---	291.832	291.858	291.845	291.911	292.060	292.074	292.059	291.948	291.883	291.837	291.813	8
9	---	291.836	291.853	291.848	291.920	292.056	292.073	292.060	291.938	291.878	291.830	291.811	9
10	---	291.838	291.855	291.844	291.932	292.063	292.077	292.050	291.966	291.883	291.832	291.804	10
11	---	291.838	291.858	291.851	291.940	292.065	292.084	292.040	291.963	291.885	291.828	291.809	11
12	---	291.839	291.858	291.852	291.940	292.077	292.076	292.035	291.958	291.881	291.831	291.805	12
13	---	291.842	291.861	291.851	291.946	292.103	292.081	292.038	291.954	291.880	291.838	291.806	13
14	291.826A	291.843	291.858	291.850	291.948	292.108	292.087	292.018	291.948	291.874	291.833	291.807	14
15	291.827	291.842	291.854	291.852	291.953	292.113	292.097	292.020	291.941	291.871	291.830	291.802	15
16	291.832	291.843	291.856	291.849	291.980	292.112	292.113	292.000	291.930	291.881	291.825	291.802	16
17	291.824	291.837	291.853	291.853	291.971	292.114	292.118	292.003	291.935	291.873	291.829	291.801	17
18	291.827	291.836	291.853	291.851	291.978	292.108	292.117	292.001	291.962	291.882	291.838	291.801	18
19	291.832	291.841	291.852	291.854	291.983	292.112	292.116	292.017	291.961	291.856	291.844	291.796	19
20	291.827	291.840	291.852	291.854	291.987	292.114	292.111	291.986	291.952	291.852	291.842	291.794	20
21	291.830	291.849	291.851	291.853	291.988	292.117	292.088	291.988	291.941	291.856	291.840	291.792	21
22	291.832	291.850	291.848	291.853	292.003	292.115	292.120	291.981	291.936	291.846	291.838	291.792	22
23	291.840	291.851	291.848	291.854	292.008	292.115	292.110	291.977	291.934	291.856	291.840	291.791	23
24	291.833	291.847	291.854	291.858	292.009	292.109	292.108	291.968	291.935	291.854	291.848	291.783	24
25	291.832	291.847	291.855	291.864	292.005	292.101	292.099	291.969	291.931	291.847	291.844	291.783	25
26	291.830	291.848	291.850	291.876	292.022	292.113	292.105	291.985	291.922	291.842	291.839	291.780	26
27	291.832	291.844	291.852	291.882	292.038	292.118	292.110	291.959	291.927	291.843	291.836	291.787	27
28	291.843	291.844	291.850	291.885	292.038	292.115	292.094	291.954	291.929	291.841	291.834	291.788	28
29	291.840		291.851	291.889	292.034	292.113	292.083	291.946	291.918	291.833	291.836	291.782	29
30	291.838		291.853	291.889	292.041	292.107	292.088	291.962	291.910	291.830	291.838	291.779	30
31	291.842		291.854		292.039		292.093	291.941		291.828		291.776	31
MEAN	---	291.840	291.853	291.856	291.985	292.088	292.096	292.015	291.942	291.868	291.832	291.802	MEAN
MAX	---	291.851	291.861	291.889	292.041	292.118	292.120	292.089	291.968	291.907	291.848	291.838	MAX
MIN	---	291.832	291.848	291.844	291.892	292.032	292.087	291.941	291.910	291.828	291.807	291.776	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 292.120 ON JUL 22
MINIMUM DAILY, 291.776 ON DEC 31
MAXIMUM INSTANTANEOUS,
292.197 AT 21:00 CST ON JUL 17

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 35 00 N
LONG 101 23 00 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

BACK LAKE NEAR OXFORD HOUSE - STATION NO. 04AA003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	187.330	187.345	187.316	187.317	187.214	187.859	187.897	187.828	187.485	187.409	187.356	187.320	1
2	187.328	187.341	187.321	187.315	187.213	187.876	187.901	187.822	187.454	187.408	187.340	187.318	2
3	187.323	187.340	187.318	187.310	187.206	187.893	187.885	187.806	187.470	187.393	187.338	187.311	3
4	187.333	187.336	187.316	187.308	187.212	187.920	187.881	187.812	187.479	187.390	187.352	187.313	4
5	187.341	187.330	187.311	187.305	187.216	187.944	187.870	187.808	187.444	187.398	187.380	187.316	5
6	187.348	187.323	187.288	187.301	187.219	187.958	187.886	187.805	187.421	187.405	187.385	187.307	6
7	187.354	187.322	187.322	187.296	187.220	187.954	187.853	187.801	187.412	187.400	187.352	187.311	7
8	187.354	187.319	187.333	187.286	187.221	187.962	187.841	187.579	187.426	187.401	187.351	187.313	8
9	187.361	187.316	187.331	187.284	187.229	187.976	187.828	187.561	187.421	187.397	187.361	187.310	9
10	187.363	187.325	187.331	187.277	187.247	187.978	187.821	187.567	187.406	187.400	187.378	187.315	10
11	187.350	187.335	187.334	187.259	187.280	187.985	187.821	187.555	187.403	187.388	187.381	187.304	11
12	187.343	187.331	187.339	187.262	187.298	187.991	187.821	187.552	187.407	187.379	187.386	187.303	12
13	187.336	187.338	187.342	187.259	187.314	187.997	187.809	187.562	187.404	187.391	187.350	187.308	13
14	187.328	187.342	187.343	187.259	187.342	188.011	187.810	187.545	187.398	187.382	187.351	187.307	14
15	187.326	187.346	187.342	187.254	187.347	188.008	187.781	187.527	187.390	187.378	187.383	187.302	15
16	187.330	187.346	187.346	187.253	187.358	188.009	187.780	187.514	187.380	187.382	187.358	187.301	16
17	187.331	187.337	187.342	187.248	187.374	188.012	187.785	187.517	187.374	187.414	187.380	187.306	17
18	187.327	187.324	187.340	187.251	187.388	188.007	187.770	187.515	187.401	187.391	187.358	187.307	18
19	187.334	187.323	187.337	187.249	187.429	187.998	187.786	187.511	187.421	187.381	187.358	187.309	19
20	187.339	187.326	187.333	187.246	187.462	188.003	187.788	187.500	187.415	187.375	187.333	187.303	20
21	187.348	187.328	187.332	187.236	187.484	187.999	187.757	187.503	187.410	187.384	187.307	187.307	21
22	187.365	187.334	187.329	187.228	187.529	187.983	187.739	187.503	187.400	187.378	187.339	187.304	22
23	187.353	187.337	187.323	187.220	187.569	187.987	187.742	187.489	187.415	187.388	187.350	187.301	23
24	187.351	187.335	187.323	187.218	187.600	187.985	187.745	187.487	187.429	187.370	187.324	187.301	24
25	187.349	187.336	187.329	187.215	187.630	187.961	187.741	187.487	187.414	187.378	187.281	187.303	25
26	187.348	187.333	187.330	187.210	187.655	187.950	187.723	187.492	187.406	187.376	187.280	187.307	26
27	187.341	187.309	187.325	187.219	187.690	187.971	187.714	187.487	187.388	187.376	187.316	187.306	27
28	187.337	187.312	187.326	187.218	187.738	187.966	187.687	187.483	187.409	187.389	187.326	187.312	28
29	187.344		187.322	187.220	187.776	187.949	187.684	187.483	187.418	187.384	187.317	187.313	29
30	187.348		187.321	187.218	187.807	187.921	187.842	187.477	187.415	187.371	187.314	187.317	30
31	187.347		187.316		187.836		187.842	187.486		187.365		187.318	31
MEAN	187.342	187.331	187.328	187.256	187.423	187.967	187.783	187.537	187.417	187.385	187.343	187.309	MEAN
MAX	187.363	187.346	187.346	187.317	187.836	188.012	187.901	187.828	187.478	187.414	187.381	187.320	MAX
MIN	187.323	187.309	187.288	187.210	187.206	187.859	187.842	187.486	187.374	187.384	187.280	187.301	MIN

WATER LEVELS IN METRES

MEAN, 187.452
MAXIMUM DAILY, 188.012 ON JUN 17
MINIMUM DAILY, 187.206 ON MAY 3
MAXIMUM INSTANTANEOUS,
188.019 AT 15:10 CST ON JUN 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM
APPLY -158.987 m ADJUSTMENT TO CONVERT TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 56 30 N
LONG 95 14 50 W

NATURAL FLOW

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05BA007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0388	0.0118	0.0058	17.5 B	1.80	0.618	0.835	0.142	0.008	0.014	0.022	0.0238	1
2	0.0358	0.0118	0.0048	14.6 B	1.52	0.566	0.829	0.099	0.006	0.014	0.019	0.0228	2
3	0.0308	0.0108	0.0048	16.1 B	1.43	0.555	0.821	0.073	0.005	0.017	0.022	0.0228	3
4	0.0308	0.0098	0.0048	14.6 B	1.30	0.515	0.741	0.055	0.004	0.050	0.023	0.0228	4
5	0.0298	0.0098	0.0068	14.5 B	1.30	0.473	0.685	0.047	0.004	0.038	0.023	0.0198	5
6	0.0278	0.0088	0.0418	14.8 B	1.21	0.476	0.630	0.041	0.005	0.027	0.024	0.0188	6
7	0.0268	0.0088	0.0378	14.8 B	1.12	0.418	0.572	0.035	0.004	0.024	0.045	0.0178	7
8	0.0268	0.0088	0.0258	11.1 B	1.08	0.381	0.505	0.027	0.005	0.023	0.040	0.0178	8
9	0.0278	0.0088	0.0178	8.788	1.09	0.340	0.458	0.024	0.005	0.022	0.026	0.0168	9
10	0.0268	0.0088	0.0118	7.838	1.09	0.362	0.428	0.022	0.008	0.023	0.024	0.0158	10
11	0.0268	0.0088	0.0118	7.508	1.02	0.393	0.381	0.015	0.004	0.024	0.024	0.0148	11
12	0.0258	0.0078	0.0498	8.948	1.17	0.374	0.309	0.012	0.004	0.025	0.024	0.0148	12
13	0.0258	0.0078	0.3248	4.348	1.53	0.379	0.274	0.013	0.004	0.028	0.024	0.0148	13
14	0.0258	0.0088	0.5528	4.018	1.48	0.345	0.224	0.011	0.004	0.038	0.024	0.0148	14
15	0.0248	0.0088	0.7058	4.898	1.44	0.308	0.187	0.010	0.008	0.037	0.024	0.0138	15
16	0.0248	0.0108	1.72 B	4.118	1.47	0.272	0.176	0.010	0.008	0.032	0.022	0.0138	16
17	0.0238	0.0098	1.06 B	4.37	1.43	0.235	0.170	0.010	0.008	0.030	0.022	0.0138	17
18	0.0228	0.0088	1.44 B	3.91	1.38	0.219	0.163	0.009	0.010	0.047	0.022	0.0138	18
19	0.0228	0.0078	1.19 B	3.47	1.34	0.253	0.151	0.008	0.012	0.038	0.022	0.0138	19
20	0.0228	0.0088	0.4138	3.29	1.22	0.418	0.165	0.008	0.012	0.028	0.023	0.0128	20
21	0.0208	0.0088	0.1388	3.04	1.25	0.405	0.174	0.008	0.011	0.028	0.023	0.0118	21
22	0.0178	0.0078	0.0738	2.88	1.16	0.855	0.179	0.007	0.010	0.025	0.0238	0.0118	22
23	0.0178	0.0088	0.0488	2.83	1.07	0.833	0.178	0.007	0.010	0.024	0.0238	0.0118	23
24	0.0188	0.0078	0.0388	2.72	1.01	1.59	0.150	0.006	0.010	0.026	0.0238	0.0118	24
25	0.0188	0.0088	0.0348	2.56	0.926	1.17	0.146	0.007	0.010	0.025	0.0238	0.0118	25
26	0.0188	0.0058	0.0318	2.35	0.918	0.940	0.138	0.006	0.010	0.028	0.0238	0.0108	26
27	0.0148	0.0058	0.0448	2.15	0.903	0.732	0.137	0.006	0.010	0.028	0.0238	0.0098	27
28	0.0148	0.0058	0.0988	1.99	0.810	0.830	0.115	0.008	0.011	0.027	0.0238	0.0098	28
29	0.0148		0.2278	1.87	0.705	0.857	0.104	0.007	0.012	0.028	0.0238	0.0088	29
30	0.0138		1.49 B	1.70	0.678	0.674	0.148	0.008	0.013	0.024	0.0238	0.0078	30
31	0.0138		5.80 B		0.888		0.178	0.008		0.023		0.0088	31
TOTAL	0.701	0.220	19.439	205.83	36.276	18.588	10.387	0.747	0.230	0.859	0.729	0.426	TOTAL
MEAN	0.023	0.008	0.627	6.85	1.17	0.553	0.334	0.024	0.008	0.028	0.024	0.014	MEAN
MAX	0.038	0.011	5.80	17.5	1.80	1.59	0.835	0.142	0.013	0.050	0.045	0.023	MAX
MIN	0.012	0.005	0.004	1.70	0.888	0.219	0.104	0.006	0.004	0.014	0.019	0.008	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.801
MAXIMUM DAILY, 17.5B ON APR 1
MINIMUM DAILY, 0.0048 ON MAR 2
MAXIMUM INSTANTANEOUS,
25.8B AT 00:18 CST ON APR 1

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 15 N
LONG 99 19 22 W
DRAINAGE AREA, 1 520 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	60.6	JUL	895
FEB	19.0	AUG	64.5
MAR	1 680	SEP	19.9
APR	17 800	OCT	74.2
MAY	3 130	NOV	63.0
JUN	1 430	DEC	37.0

TOTAL DISCHARGE, 25 300 dam³

BARRINGTON RIVER BELOW FIRST RAPIDS - STATION NO. 08EB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.68	5.61	4.52	3.78	5.36	25.1	18.9	15.9	11.1	35.0	29.4	22.4	1
2	5.64	5.56	4.59	3.74	5.52	24.5	18.7	15.4	10.9	34.3	29.0	21.9	2
3	5.35	5.45	4.53	3.80	5.62	24.3	18.4	15.1	11.7	33.9	28.5	21.3	3
4	5.47	5.38	4.52	3.78	5.75	24.3	17.8	15.0	13.1	33.8	28.2	21.0	4
5	5.19	5.38	4.52	3.73	5.91	24.0	17.7	15.1	15.7	33.8	28.1	20.4	5
6	5.33	5.28	4.49	3.71	5.94	23.0	17.5	14.5	17.7	33.7	28.1	20.2E	6
7	5.20	5.21	4.45	3.64	5.89	21.9	17.3	14.7	18.8	33.7	28.0	20.1E	7
8	5.21	5.19	4.46	3.65	6.08	21.8	16.9	14.4	21.3	33.7	27.9	19.9E	8
9	5.25	5.08	4.35	3.60	8.40	21.3	16.9	14.4	23.9	33.5	27.6	19.8E	9
10	5.19	5.07	4.30	3.54	6.95	20.9	16.8	14.3	26.4	33.3	27.3	19.8E	10
11	5.17	5.03	4.33	3.45	7.80	20.7	16.5	14.1	27.3	33.2	26.8	19.7E	11
12	5.21	5.05	4.26	3.39	8.25	20.7	16.3	13.8	27.4	33.1	26.5	19.5E	12
13	5.17	5.08	4.25	3.34	8.79	20.9	16.4	13.6	27.1	32.8	26.3	19.3E	13
14	5.07	5.05	4.22	3.36	9.19	20.9	16.0	13.5	26.4	32.5	26.1	19.2E	14
15	5.08	5.01	4.13	3.38	9.52	21.2	15.7	13.0	25.5	32.3	25.8	19.0E	15
16	5.17	5.05	4.01	3.65	9.73	21.5	15.7	12.9	24.8	32.2	25.4	18.8E	16
17	5.08	4.97	4.03	3.62	10.2	21.5	15.8	12.6	24.4	32.2	25.2	18.7E	17
18	5.04	4.92	4.01	3.47	10.7	21.5	15.8	12.5	29.0	32.2	25.1	18.2E	18
19	5.07	4.88	3.98	3.49	11.3	21.3	15.7	12.5	35.3	32.0	25.1	17.9E	19
20	5.95	4.83	3.96	3.49	11.9	21.1	15.7	12.1	39.5	31.4	24.9	17.8E	20
21	6.03	4.80	3.83	3.55	12.3	21.1	15.8	12.1	40.9	31.0	24.8	17.7E	21
22	6.02	4.80	3.89	3.59	12.8	21.3	15.8	12.1	40.3	30.7	24.7	17.5E	22
23	5.99	4.81	3.89	3.66	13.2	21.7	15.7	12.1	39.1	30.6	24.4	17.5E	23
24	5.98	4.78	3.85	3.75	13.5	22.0	15.5	11.7	37.9	30.6	24.1	17.3E	24
25	5.94	4.78	3.85	3.96	13.6	21.8	15.6	11.8	36.9	30.5	24.1	17.1E	25
26	5.94	4.73	3.83	4.41	13.7	21.4	15.8	11.6	36.1	30.4	23.9	16.8E	26
27	5.80	4.71	3.87	4.65	15.8	21.1	16.0	11.3	35.5	30.3	23.7	16.6E	27
28	5.69	4.58	3.83	4.81	19.6	20.7	16.2	11.4	35.6	30.3	23.4	16.5E	28
29	5.71		3.79	5.01	23.2	20.1	16.3	11.3	35.7	30.1	23.0	16.4E	29
30	5.84		3.82	5.19	25.3	19.4	16.3	11.1	35.3	29.9	22.8	16.3E	30
31	5.70		3.83		25.6		16.3	11.0		29.7		16.1E	31
TOTAL	168.97	141.04	126.27	114.05	345.20	652.6	511.8	408.8	830.4	986.7	778.2	580.1	TOTAL
MEAN	5.10	5.04	4.14	3.80	11.1	21.8	16.5	13.1	27.7	32.2	25.9	18.7	MEAN
MAX	6.88	5.61	4.59	5.19	25.6	25.1	18.9	15.9	40.9	35.0	29.4	22.4	MAX
MIN	5.64	4.58	3.79	3.34	5.36	19.4	15.5	11.0	10.9	29.7	22.8	16.1	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.5
MAXIMUM DAILY, 40.9 ON SEP 21
MINIMUM DAILY, 3.34 ON APR 13
MAXIMUM INSTANTANEOUS,
40.9 AT 12:00 CST ON SEP 21

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 45 50 N
LONG 99 58 25 W
DRAINAGE AREA, 1 770 km²

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	16 300	JUL	44 200
FEB	12 200	AUG	35 100
MAR	11 100	SEP	71 700
APR	9 850	OCT	88 100
MAY	29 800	NOV	67 200
JUN	56 400	DEC	50 100

TOTAL DISCHARGE, 490 000 dam³

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.14 B	0.135	0.118	0.004	0	0	0	---	---	1
2	---	---	0 B	5.83 B	0.071	0.116	0.010	0	0	0	---	---	2
3	---	---	0 B	5.47 B	0.050	0.110	0.022	0	0	0	---	---	3
4	---	---	0 B	7.57 B	0.039	0.112	0.012	0	0	0	---	---	4
5	---	---	0 B	7.30 B	0.020	0.214	0.011	0	0	0	---	---	5
6	---	---	0 B	7.79 B	0.018	0.118	0.008	0	0	0	---	---	6
7	---	---	0 B	7.15 B	0.017	0.189	0.004	0	0	0	---	---	7
8	---	---	0 B	5.84 B	0.080	0.459	0.002	0	0	0	---	---	8
9	---	---	0 B	5.34	0.089	0.508	0.002	0	0	0	---	---	9
10	---	---	0 B	5.86	0.054	0.312	0.012	0	0	0	---	---	10
11	---	---	0 B	5.42	0.037	0.117	0.005	0	0	0	---	---	11
12	---	---	0 B	4.12	0.081	0.098	0.002	0	0	0	---	---	12
13	---	---	0 B	4.14 B	0.164	0.121	0.117	0	0	0	---	---	13
14	---	---	0 B	1.76 B	0.178	0.080	0.128	0	0	0	---	---	14
15	---	---	0 B	1.02 B	0.705	0.071	0.076	0	0	0	---	---	15
16	---	---	0 B	1.54 B	0.785	0.053	0.080	0	0	0	---	---	16
17	---	---	0 B	0.4788	0.583	0.038	0.052	0	0	0	---	---	17
18	---	---	0 B	0.252	0.419	0.023	0.045	0	0	0	---	---	18
19	---	---	0 B	0.193	0.348	0.018	0.042	0	0	0	---	---	19
20	---	---	0 B	0.276	0.248	0.028	0.038	0	0	0	---	---	20
21	---	---	0 B	0.473	0.451	0.023	0.029	0	0	0	---	---	21
22	---	---	0 B	0.588	0.497	0.024	0.021	0	0	0	---	---	22
23	---	---	0 B	0.881	0.491	0.020	0.014	0	0	0	---	---	23
24	---	---	0 B	0.702	0.273	0.014	0.008	0	0	0	---	---	24
25	---	---	0 B	0.548	0.189	0.011	0.005	0	0	0	---	---	25
26	---	---	0 B	0.388	0.370	0.008	0.003	0	0	0	---	---	26
27	---	---	0 B	0.334	0.321	0.005	0.002	0	0	0	---	---	27
28	---	---	0 B	0.251	0.242	0.004	0.001	0	0	0	---	---	28
29	---		0.0018	0.231	0.197	0.004	0	0	0	0	---	---	29
30	---		0.0028	0.263	0.126	0.005	0	0	0	0	---	---	30
31	---		0.0238		0.117		0	0		0		---	31
TOTAL	---	---	0.026	84.058	7.332	3.040	0.732	0	0	0	---	---	TOTAL
MEAN	---	---	0.001	2.80	0.237	0.101	0.024	0	0	0	---	---	MEAN
MAX	---	---	0.023	7.79	0.785	0.508	0.129	0	0	0	---	---	MAX
MIN	---	---	0	0.193	0.018	0.004	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.369
MAXIMUM DAILY, 7.788 ON APR 6
MINIMUM DAILY, 0.0 ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 04 00 N
LONG 98 37 40 W
DRAINAGE AREA, 275 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	63.3
FEB	---	AUG	0
MAR	2.35	SEP	0
APR	7 280	OCT	0
MAY	633	NOV	---
JUN	263	DEC	---

TOTAL DISCHARGE, 8 220 dam³

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.3688	0.3788	2.08	4.58	2.37	1.77	1.34	1.51	---	---	1
2	---	---	0.3688	0.3788	2.42	4.30	2.54	1.70	1.34	1.48	---	---	2
3	---	---	0.3688	0.3788	2.56	15.5	4.78	1.82	1.30E	1.53	---	---	3
4	---	---	0.3688	0.3648	2.50	11.8	5.79	1.55	1.32E	1.80	---	---	4
5	---	---	0.3708	0.3588	2.83	7.59	5.36	1.53	1.43E	1.82	---	---	5
6	---	---	0.3688	0.3648	3.10	5.75	4.14	1.45	2.30E	1.81	---	---	6
7	---	---	0.3688	0.3528	3.09	4.76	3.17	1.45	3.21E	1.58	---	---	7
8	---	---	0.3648	0.3948	3.70	4.74	2.77	1.49	2.93E	1.57	---	---	8
9	---	---	0.3648	0.4628	5.40	4.27	2.70	1.48	2.63E	1.48	---	---	9
10	---	---	0.3648	0.7108	9.25	3.98	2.72	1.51	3.21E	1.47	---	---	10
11	---	---	0.3648	0.8298	6.97	3.65	2.71	1.49	3.61E	1.48	---	---	11
12	---	---	0.3648	0.9018	6.55	4.33	2.99	1.47	3.49E	1.40	---	---	12
13	---	---	0.3648	0.9318	5.12	6.03	2.64	1.50	3.19E	1.38	---	---	13
14	---	---	0.3648	0.9728	5.18	4.90	2.55	1.49	2.90E	1.34	---	---	14
15	---	---	0.3648	1.00 B	4.66	4.80	2.48	1.54	2.59E	1.33	---	---	15
16	---	---	0.3648	1.02 B	4.51	4.20	3.52	1.57	2.33E	1.30	---	---	16
17	---	---	0.3648	1.05 B	5.82	3.78	3.26	1.55	2.07E	1.26	---	---	17
18	---	---	0.3648	1.08 B	7.75	3.39	2.89	1.57	2.38E	1.44	---	---	18
19	---	---	0.3648	1.12 B	8.90	3.24	2.49	1.53	2.71E	1.52	---	---	19
20	---	---	0.3648	1.16 B	8.75	3.02	2.18	1.58	3.08E	1.17	---	---	20
21	---	---	0.3648	1.20 B	10.5	2.83	2.04	1.57	3.42E	1.10	---	---	21
22	---	---	0.3648	1.36 B	9.48	2.91	1.93	1.58	3.11E	1.11	---	---	22
23	---	---	0.3648	2.57 B	8.92	2.51	1.91	1.55	2.80E	1.08	---	---	23
24	---	---	0.3648	4.15 B	7.61	2.32	1.84	1.53	2.50E	1.09	---	---	24
25	---	---	0.3648	5.98 B	6.74	2.38	1.75	1.61	2.24E	1.03	---	---	25
26	---	---	0.3648	4.08 B	6.99	2.35	1.98	1.60	1.97E	1.00	---	---	26
27	---	---	0.3648	3.04 B	7.39	2.28	1.99	1.50	1.73E	1.05	---	---	27
28	---	---	0.3648	2.71 B	6.45	2.20	1.83	1.43	1.51A	1.04	---	---	28
29	---		0.3648	2.41 B	5.85	2.21	1.81	1.52	1.50	1.13	---	---	29
30	---		0.3688	2.14	5.39	2.22	1.82	1.43	1.47	1.19	---	---	30
31	---		0.3708		4.91		1.82	1.35		1.19	---	---	31
TOTAL	---	---	11.314	43.827	181.88	132.81	84.26	47.49	71.79	41.08	---	---	TOTAL
MEAN	---	---	0.365	1.46	5.86	4.43	2.72	1.53	2.39	1.32	---	---	MEAN
MAX	---	---	0.370	5.98	10.5	15.5	5.79	1.77	3.81	1.82	---	---	MAX
MIN	---	---	0.364	0.352	2.09	2.20	1.75	1.35	1.30	1.00	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.61
MAXIMUM DAILY, 15.5 ON JUN 3
MINIMUM DAILY, 0.3528 ON APR 7
MAXIMUM INSTANTANEOUS,
19.7 AT 19:48 CST ON JUN 3

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 36 10 N
LONG 101 02 15 W
DRAINAGE AREA, 170 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1955

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	7 280
FEB	---	AUG	4 100
MAR	978	SEP	8 200
APR	3 780	OCT	3 550
MAY	15 700	NOV	---
JUN	11 500	DEC	---

TOTAL DISCHARGE, 53 100 dam³

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RB007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	19.4	17.4	14.9	13.0	20.5	30.2	90.8	82.2	52.0	29.4	19.2	14.2	1
2	19.4	17.3	14.9	12.9	20.8	30.2	90.5	82.9	51.2	28.9	18.9	14.0	2
3	19.4	17.2	14.8	12.8	21.3	30.3	89.6	83.6	49.5	28.4	18.7	13.8	3
4	19.5	17.0	14.7	12.8	21.8	31.1	88.1	84.2	48.0	27.8	18.4	13.6	4
5	19.4	17.0	14.5	12.7	22.1	31.2	86.6	84.5	47.8	27.3	18.2	13.4	5
6	19.2	16.8	14.6	12.7	22.3	31.4	84.8	85.0	47.5	27.0	18.0	13.1	6
7	19.0	16.9	14.7	12.7	22.3	31.5	82.5	84.9	46.8	26.4	17.9	12.9	7
8	18.9	16.8	14.8	12.6	22.4	31.5	80.5	85.0	45.8	25.8	17.8	12.7	8
9	18.8	16.8	14.6	13.0	22.4	31.7	78.4	85.0	45.1	25.2	17.8	12.5	9
10	18.6	16.7	14.5	13.4	22.3	31.9	77.0	85.7	44.2	24.8	17.6	12.2	10
11	18.3	16.6	14.3	13.8	22.3	32.0	75.6	85.7	43.7	24.9	17.4	12.1	11
12	18.2	16.6	14.3	13.9	22.9	32.2	75.2	86.1	42.9	24.7	17.2	12.0	12
13	18.1	16.5	14.4	13.9	24.7	32.6	73.4	85.7	42.0	24.2	17.1	11.9	13
14	18.0	16.5	14.4	13.7	26.5	33.5	72.2	85.1	41.2	23.9	16.9	11.6	14
15	18.0	16.4	14.3	13.6	27.5	34.8	70.7	85.5	40.3	23.8	16.7	11.5	15
16	18.0	16.2	14.2	13.5	28.2	35.9	68.7	85.5	39.4	23.0	16.6	11.3	16
17	18.0	16.1	14.1	13.3	28.4	36.9	67.4	85.9	38.5	22.6	16.4	11.1	17
18	17.9	16.0	14.0	13.2	28.8	37.7	65.9	85.1	38.0	22.4	16.3	11.0	18
19	17.8	15.9	13.9	13.3	29.0	38.4	64.6	83.4	38.2	22.1	16.2	10.9	19
20	17.9	15.8	13.8	13.7	29.2	43.4	63.7	83.4	37.7	21.8	16.1	10.9	20
21	17.8	15.7	13.7	14.8	29.3	50.8	62.9	82.3	36.6	21.5	15.9	10.9	21
22	17.8	15.7	13.5	15.8	29.8	60.6	61.7	81.0	35.7	21.2	15.8	10.8	22
23	17.8	15.5	13.4	16.6	29.8	72.1	61.2	80.1	34.9	20.9	15.7	10.8	23
24	17.8	15.4	13.3	17.4	29.9	78.9	60.5	79.2	34.0	20.8	15.6	10.8	24
25	17.7	15.3	13.3	18.3	29.9	83.6	59.9	78.4	33.2	20.7	15.5	10.9	25
26	17.7	15.1	13.4	19.0	29.9	88.1	59.0	57.5	32.5	20.5	15.3	11.0	26
27	17.7	15.1	13.4	19.4	29.8	90.1	59.0	56.7	31.8	20.3	15.1	11.1	27
28	17.6	15.0	13.3	19.7	29.7	90.7	58.9	55.7	30.9	20.1	14.8	11.1	28
29	17.6		13.2	19.9	30.0	90.2	59.1	55.1	30.6	20.0	14.8	11.2	29
30	17.5		13.2	20.1	30.1	89.7	59.9	54.1	30.0	19.8	14.4	11.2	30
31	17.5		13.1		30.1		61.3	53.2		19.5		11.2	31
TOTAL	566.5	455.4	436.3	445.6	813.9	1 464.5	2 210.1	1 928.7	1 211.1	729.3	502.0	367.7	TOTAL
MEAN	18.3	16.3	14.0	14.9	26.3	48.8	71.3	62.2	40.4	23.5	16.7	11.9	MEAN
MAX	19.5	17.4	14.9	20.1	30.1	90.7	90.8	85.1	52.0	29.4	19.2	14.2	MAX
MIN	17.5	15.0	13.1	12.7	20.5	30.2	58.9	53.2	30.0	19.5	14.4	10.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 30.5
MAXIMUM DAILY, 90.8 ON JUL 1
MINIMUM DAILY, 10.8 ON DEC 22
MAXIMUM INSTANTANEOUS,
91.0 AT 18:12 CST ON JUN 28

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 12 10 N
LONG 95 06 10 W

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	48 900	JUL	181 000
FEB	39 300	AUG	167 000
MAR	37 600	SEP	105 000
APR	38 500	OCT	83 000
MAY	70 300	NOV	43 400
JUN	127 000	DEC	31 800

TOTAL DISCHARGE, 983 000 dam³

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.0768 B	3.97	1.77	0.422	0.088	0	A	---	---	1
2	---	---	0 B	0.0808 B	3.47	1.69	0.564	0.063	0	A	---	---	2
3	---	---	0 B	0.2198 B	3.18	1.69	0.731	0.035	0	0	---	---	3
4	---	---	0 B	2.49 B	2.90	1.91	0.748	0.005	0	0	---	---	4
5	---	---	0 B	5.33 B	2.65	1.98	0.695	0.001	0	0	---	---	5
6	---	---	0 B	6.58 B	2.47	1.86	0.631	0	0	0	---	---	6
7	---	---	0 B	9.18 B	2.23	1.67	0.551	0	0	0	---	---	7
8	---	---	0 B	8.72 B	2.01	1.54	0.459	0	0	0	---	---	8
9	---	---	0 B	13.3 B	1.90	1.43	0.388	0	0	0	---	---	9
10	---	---	0 B	19.9 B	1.93	1.33	0.379	0	0	0	---	---	10
11	---	---	0 B	22.6 B	1.98	1.25	0.371	0	0	0	---	---	11
12	---	---	0 B	23.8 B	1.93	1.15	0.440	0	0	0	---	---	12
13	---	---	0 B	18.3 B	1.95	1.08	0.635	0	0	0	---	---	13
14	---	---	0 B	13.5 A	2.08	1.05	0.641	0	0	0	---	---	14
15	---	---	0 B	13.4 A	2.03	1.01	0.512	0	0	0	---	---	15
16	---	---	0 B	8.86 A	2.05	0.960	0.442	0	0	0	---	---	16
17	---	---	0 B	8.08	2.81	0.887	0.344	0	0	0	---	---	17
18	---	---	0 B	6.83	4.23	0.820	0.316	0	0	0	---	---	18
19	---	---	0 B	8.07	6.92	0.759	0.484	0	0	0	---	---	19
20	---	---	0 B	10.8	7.11	0.747	0.504	0	0	0	---	---	20
21	---	---	0 B	18.6	4.80	0.705	0.430	0	0	0	---	---	21
22	---	---	0 B	21.9	3.72	0.679	0.372	0	0	0	---	---	22
23	---	---	0 B	21.1	3.11	0.653	0.313	0	0	0	---	---	23
24	---	---	0 B	20.0	2.78	0.627	0.254	0	0	0	---	---	24
25	---	---	0 B	20.8	2.54	0.586	0.189	0	0	0	---	---	25
26	---	---	0 B	21.0	2.31	0.551	0.133	0	0	0	---	---	26
27	---	---	0 B	19.0	2.24	0.484	0.108	0	0	0	---	---	27
28	---	---	0 B	12.5	2.18	0.437	0.080	0	0	0	---	---	28
29	---		0 B	7.43	2.03	0.399	0.061	0	0	0	---	---	29
30	---		0.0198	5.02	1.92	0.421	0.057	0	0	0	---	---	30
31	---		0.0648		1.84		0.063	0		0	---	---	31
TOTAL	---	---	0.083	365.836	89.07	32.145	12.319	0.192	0	0	---	---	TOTAL
MEAN	---	---	0.003	12.2	2.87	1.07	0.397	0.006	0	0	---	---	MEAN
MAX	---	---	0.064	23.8	7.11	1.98	0.748	0.088	0	0	---	---	MAX
MIN	---	---	0	0.076	1.84	0.399	0.057	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.04
MAXIMUM DAILY, 23.88 ON APR 12
MINIMUM DAILY, 0.0 ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 30 22 N
LONG 98 58 15 W
DRAINAGE AREA, 1 050 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 060
FEB	---	AUG	16.6
MAR	7.17	SEP	0
APR	31 800	OCT	0
MAY	7 700	NOV	---
JUN	2 780	DEC	---

TOTAL DISCHARGE, 43 200 dam³

BIRCH RIVER ABOVE BRACKEN DAM NEAR THE PAS - STATION NO. 05KH003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	259.885E	259.839	---	259.674	259.824	259.845	---	---	1
2	---	---	---	---	259.885E	259.856	---	259.676	259.822	259.843	---	---	2
3	---	---	---	---	259.885A	259.861	---	259.680	259.853	259.831	---	---	3
4	---	---	---	---	259.886	259.883	---	259.658	259.825	259.832	---	---	4
5	---	---	---	---	259.885	259.896	---	259.650	259.820	259.859	---	---	5
6	---	---	---	---	259.883	259.885	---	259.637	259.838	259.842	---	---	6
7	---	---	---	---	259.878	259.877	---	259.652	259.832	259.839	---	---	7
8	---	---	---	---	259.876	259.893	---	259.640	259.839	259.837	---	---	8
9	---	---	259.749A	---	259.875	259.887	---	259.661	259.831	259.833	---	---	9
10	---	---	---	---	259.851	259.885	---	259.717	259.859	259.866	---	---	10
11	---	---	---	---	---	259.892	259.884	---	259.712	259.880	259.860	---	11
12	---	---	---	259.786A	259.896	259.891	259.811A	259.708	259.852	259.847	---	---	12
13	---	---	---	---	259.881	259.901	259.802	259.711	259.847	259.850	---	---	13
14	---	---	---	---	259.886	259.887	259.781	259.705	259.837	259.846	---	---	14
15	---	---	---	---	259.888	259.878	259.829	259.722	259.836	259.837	---	---	15
16	---	---	---	---	259.889	259.879	259.873	259.716	259.832	259.865	---	---	16
17	---	---	---	---	259.897	259.873	259.890	259.778	259.831	259.851	---	---	17
18	---	---	---	---	259.906	259.849	259.832	259.786	259.880	259.828	---	---	18
19	---	---	---	259.813A	259.896	259.857	259.715	259.822	259.893	259.824	---	---	19
20	---	---	---	---	259.888	259.853	259.698	259.796	259.887	259.823	---	---	20
21	---	---	---	---	259.878	259.851	259.882	259.825	259.861	259.833	---	---	21
22	---	---	---	---	259.900	259.842	259.898	259.819	259.880	259.818	---	---	22
23	---	---	---	---	259.897	259.840	259.882	259.824	259.880	259.829	---	---	23
24	---	---	---	---	259.886	259.824	259.873	259.816	259.868	259.832	---	---	24
25	---	---	---	---	259.878	259.788	259.858	259.819	259.861	259.821	---	---	25
26	---	---	---	---	259.875	259.810	259.855	259.821	259.845	259.811	---	---	26
27	---	---	---	---	259.874	---	259.861	259.813	259.853	259.818	---	---	27
28	---	---	---	---	259.886	---	259.871	259.817	259.886	259.815	---	---	28
29	---		---	---	259.851	---	259.882	259.811	259.850	259.809	---	---	29
30	---		---	---	259.843	---	259.886	259.811	259.841	259.806	---	---	30
31	---		---		259.841		259.886	259.823		259.812		---	31
MEAN	---	---	---	---	259.881	---	---	259.745	259.849	259.833	---	---	MEAN
MAX	---	---	---	---	259.906	---	---	259.825	259.893	259.885	---	---	MAX
MIN	---	---	---	---	259.841	---	---	259.637	259.820	259.806	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 259.906 ON MAY 18

MAXIMUM INSTANTANEOUS,
259.920 AT 14:00 CST ON MAY 20

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 49 30 N
LONG 101 19 30 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
2 430 km²

BIRCH RIVER BELOW BRACKEN DAM NEAR THE PAS - STATION NO. 05KH004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	258.079	260.171	258.236	---	258.180	257.148	257.341	---	---	1
2	---	---	---	258.187	260.058	258.208	---	258.046	257.173	257.348	---	---	2
3	---	---	---	258.282	259.805	258.248	---	257.961	257.144	257.387	---	---	3
4	---	---	---	258.296	259.613	258.315	---	257.897	257.088	257.380	---	---	4
5	---	---	---	258.223	259.453	258.268	---	257.858	257.183	257.398E	---	---	5
6	---	---	---	258.155	259.330	258.171	---	257.885	257.222	257.398E	---	---	6
7	---	---	---	258.135	259.208	258.090	---	257.956	257.239	257.395A	---	---	7
8	---	---	---	258.147	259.129	258.071	---	257.967	257.168	257.374	---	---	8
9	---	---	258.799A	258.201	259.048	258.126	---	257.923	257.115	257.351	---	---	9
10	---	---	258.789	258.288	258.992	258.158	---	257.926	257.180	257.398	---	---	10
11	---	---	258.778	258.308	259.017	258.199	---	257.909	257.216	257.343	---	---	11
12	---	---	258.778	258.275	258.961	258.214	258.405A	257.842	257.223	257.361	---	---	12
13	---	---	258.733	258.236	258.919	258.207	258.482	257.772	257.209	257.385	---	---	13
14	---	---	258.635	258.287	258.912	258.181	258.464	257.702	257.218	257.394	---	---	14
15	---	---	258.622	258.397	258.880	258.209	258.584	257.624	257.267	257.477	---	---	15
16	---	---	258.430	258.477	258.840	258.261	258.711	257.531	257.307	257.494	---	---	16
17	---	---	258.394	258.511	258.799	258.275	258.751	257.495	257.350	257.427	---	---	17
18	---	---	258.407	258.521	258.781	258.283	258.686	257.440	257.317	257.410	---	---	18
19	---	---	258.400	258.536	258.765	258.289	258.757	257.388	257.303	257.398	---	---	19
20	---	---	258.387	258.571	258.741	258.283	258.801	257.318	257.288	257.387	---	---	20
21	---	---	258.338	258.643	258.743	258.189	258.810	257.297	257.439	257.325	---	---	21
22	---	---	258.270	258.759	258.785	258.136	258.804	257.284	257.440	257.308	---	---	22
23	---	---	258.240	258.937	258.759	258.188	258.793	257.243	257.425	257.303	---	---	23
24	---	---	258.257	259.141	258.690	258.170	258.789	257.216	257.387	257.262	---	---	24
25	---	---	258.271	259.381	258.577	258.135	258.744	257.214	257.389	257.259	---	---	25
26	---	---	258.250	259.581	258.500	258.132	258.728	257.192	257.386	257.249	---	---	26
27	---	---	258.191	259.854	258.519	258.099	258.682	257.174	257.403	257.279	---	---	27
28	---	---	258.111	260.023	258.538	257.990	258.591	257.166	257.395	257.281	---	---	28
29	---		258.060	260.091	258.502	257.911A	258.508	257.178	257.381	257.258	---	---	29
30	---		258.038	260.136	258.425	257.881E	258.421	257.206	257.337	257.247	---	---	30
31	---		258.040		258.337		258.325	257.189		257.235		---	31
MEAN	---	---	---	258.688	258.981	258.189	---	257.979	257.279	257.348	---	---	MEAN
MAX	---	---	---	260.136	260.171	258.315	---	258.180	257.449	257.494	---	---	MAX
MIN	---	---	---	258.079	258.337	257.881	---	257.166	257.088	257.235	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 260.171 ON MAY 1

MAXIMUM INSTANTANEOUS,
260.252 AT 12:24 CST ON MAY 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 49 30 N
LONG 101 19 30 W

A - MANUAL GAUGE

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
2 430 km²

REMARKS - WATER LEVELS ARE AFFECTED BY HIGH STAGES ON THE SASKATCHEWAN RIVER

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. 05LE010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1958	0.2318	4.48	1.80	1.23	0.290	0.461	0.909	---	---	1
2	---	---	0.1958	0.2318	4.52	1.74	1.17	0.244	0.451	0.877	---	---	2
3	---	---	0.2008	0.2348	4.45	4.88	9.57	0.190	0.440	0.905	---	---	3
4	---	---	0.2138	0.2368	4.14	5.51	8.15	0.158	0.562	0.973	---	---	4
5	---	---	0.2268	0.2398	4.11	4.52	5.93	0.143	0.631	1.04	---	---	5
6	---	---	0.2238	0.2418	3.93	3.68	4.18	0.137	0.943	1.01	---	---	6
7	---	---	0.2188	0.2448	3.84	3.12	2.85	0.135	0.585	0.978	---	---	7
8	---	---	0.2188	0.2628	3.51	3.45	2.01	0.186	0.988	0.931	---	---	8
9	---	---	0.2188	0.3218	3.60	3.04	1.84	0.232	0.981	0.909	---	---	9
10	---	---	0.2188	0.4088	5.14	2.84	1.57	0.343	1.54	0.907	---	---	10
11	---	---	0.2188	0.4878	6.13	2.28	1.69	0.326	1.57	0.909	---	---	11
12	---	---	0.2188	0.4888	5.28	3.97	1.35	0.317	1.45	0.893	---	---	12
13	---	---	0.2188	0.4998	4.85	12.6	1.00	0.519	1.29	0.873	---	---	13
14	---	---	0.2188	0.5178	4.21	7.22	0.814	0.412	1.18	0.883	---	---	14
15	---	---	0.2188	0.5328	3.98	5.51	1.65	0.388	1.09	0.834	---	---	15
16	---	---	0.2188	0.5648	4.37	4.26	4.30	0.372	1.02	0.792	---	---	16
17	---	---	0.2188	0.5938	6.14	3.40	3.89	0.385	0.994	0.741A	---	---	17
18	---	---	0.2188	0.6788	7.85	2.70	3.23	0.371	1.08	0.758E	---	---	18
19	---	---	0.2188	1.70 B	7.84	2.42	2.38	0.413	1.16	0.748E	---	---	19
20	---	---	0.2188	2.84 B	6.29	2.10	1.85	0.399	1.19	0.744E	---	---	20
21	---	---	0.2188	4.24 B	5.83	1.74	1.29	0.340	1.23	0.695E	---	---	21
22	---	---	0.2188	5.89 B	5.23	1.58	0.927	0.382	1.25	0.678E	---	---	22
23	---	---	0.2188	7.60 B	4.62	1.64	0.748	0.403	1.24	0.661E	---	---	23
24	---	---	0.2188	13.2 B	4.03	1.40	0.605	0.412	1.20	0.623E	---	---	24
25	---	---	0.2188	18.2 B	3.51	1.52	0.480	0.478	1.14	0.582E	---	---	25
26	---	---	0.2188	18.1	3.16	1.43	0.548	0.453	1.07	0.583E	---	---	26
27	---	---	0.2188	10.2	2.87	1.34	0.494	0.437	1.01	0.517E	---	---	27
28	---	---	0.2188	7.48	2.68	1.23	0.421	0.403	1.01	0.488E	---	---	28
29	---		0.2188	5.79	2.25	1.14	0.371	0.414	0.983	0.483E	---	---	29
30	---		0.2238	4.98	2.00	1.09	0.351	0.408	0.948	0.434E	---	---	30
31	---		0.2318		1.85		0.339	0.455		0.399E		---	31
TOTAL	---	---	8.722	188.403	138.95	94.83	86.772	10.501	31.183	23.721	----	---	TOTAL
MEAN	---	---	0.217	3.55	4.42	3.16	2.15	0.338	1.04	0.765	---	---	MEAN
MAX	---	---	0.231	18.2	7.85	12.6	8.57	0.519	1.57	1.04	---	---	MAX
MIN	---	---	0.195	0.231	1.85	1.09	0.339	0.135	0.451	0.399	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.95
MAXIMUM DAILY, 18.2B ON APR 25
MINIMUM DAILY, 0.135 ON AUG 7

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 22 25 N
LONG 101 05 00 W
DRAINAGE AREA, 138 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	6 770
FEB	---	AUG	807
MAR	581	SEP	2 890
APR	9 190	OCT	2 020
MAY	11 800	NOV	---
JUN	8 200	DEC	---

TOTAL DISCHARGE, 41 200 dam³

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.318	1.928	5.02	6.29	---	---	---	---	---	---	1
2	---	---	1.328	1.958	5.08	6.23	---	---	---	---	---	---	2
3	---	---	1.368	1.858	5.08	6.34	---	---	---	---	---	---	3
4	---	---	1.398	1.958	5.17	6.64	---	---	---	---	---	---	4
5	---	---	1.458	1.968	5.16	6.64	---	---	---	---	---	---	5
6	---	---	1.558	1.978	5.19	6.63	---	---	---	---	---	---	6
7	---	---	1.648	1.998	5.11	6.65	---	---	---	---	---	---	7
8	---	---	1.748	2.018	5.08	6.67	---	---	---	---	---	---	8
9	---	---	1.788	2.058	5.02	6.59	---	---	---	---	---	---	9
10	---	---	1.818	2.148	5.01	6.61	---	---	---	---	---	---	10
11	---	---	1.818	2.288	4.98	6.58	---	---	---	---	---	---	11
12	---	---	1.828	2.458	5.26	6.59	---	---	---	---	---	---	12
13	---	---	1.838	2.688	5.30	6.59	---	---	---	---	---	---	13
14	---	---	1.858	2.908	5.45	6.60	---	---	---	---	---	---	14
15	---	---	1.868	3.088	5.59	6.58	---	---	---	---	---	---	15
16	---	---	1.868	3.20	5.84	6.50	---	---	---	---	---	---	16
17	---	---	1.868	3.29	5.73	6.46	---	---	---	---	---	---	17
18	---	---	1.878	3.33	5.85	6.41	---	---	---	---	---	---	18
19	---	---	1.888	3.36	5.94	6.36	---	---	---	---	---	---	19
20	---	---	1.888	3.41	6.01	6.41	---	---	---	---	---	---	20
21	---	---	1.878	3.47	6.02	6.61	---	---	---	---	---	---	21
22	---	---	1.868	3.56	6.07	6.64	---	---	---	---	---	---	22
23	---	---	1.878	3.64	6.17	6.72	---	---	---	---	---	---	23
24	---	---	1.878	3.76	6.36	6.77	---	---	---	---	---	---	24
25	---	---	1.888	3.90	6.34	6.77	---	---	---	---	---	---	25
26	---	---	1.888	4.14	6.37	6.82	---	---	---	---	---	---	26
27	---	---	1.888	4.39	6.40	6.75	---	---	---	---	---	---	27
28	---	---	1.888	4.61	6.34	6.62	---	---	---	---	---	---	28
29	---		1.878	4.77	6.38	6.59	---	---	---	---	---	---	29
30	---		1.868	4.90	6.40	6.64	---	---	---	---	---	---	30
31	---		1.868		6.34		---	---	---	---	---	---	31
TOTAL	---	---	54.43	90.99	175.85	197.28	---	---	---	---	---	---	TOTAL
MEAN	---	---	1.76	3.03	5.67	6.58	---	---	---	---	---	---	MEAN
MAX	---	---	1.88	4.90	6.40	6.82	---	---	---	---	---	---	MAX
MIN	---	---	1.31	1.92	4.98	6.23	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.25
MAXIMUM DAILY, 6.82 ON JUN 26
MINIMUM DAILY, 1.318 ON MAR 1
MAXIMUM INSTANTANEOUS,
6.87 AT 18:39 CST ON JUN 26

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 27 45 N
LONG 95 24 50 W
DRAINAGE AREA, 1 070 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	4 700	SEP	---
APR	7 860	OCT	---
MAY	15 200	NOV	---
JUN	17 000	DEC	---

TOTAL DISCHARGE, 44 800 dam³

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.0558	15.3	3.57	1.11	0.849	0.003	0.001	---	---	1
2	---	---	0 B	0.1028	13.4	3.29	1.10	0.772	0.003	0.001	---	---	2
3	---	---	0 B	0.1398	11.7	3.07	1.21	0.683	0.007	0.001	---	---	3
4	---	---	0 B	0.1758	9.56	2.90	1.20	0.539	0.002	0.002	---	---	4
5	---	---	0 B	0.2118	8.06	2.92	1.31	0.437	0.002	0.002	---	---	5
6	---	---	0 B	0.1838	6.87	2.92	1.20	0.341	0.002	0.002	---	---	6
7	---	---	0 B	0.1578	5.95	2.75	1.07	0.283	0.002	0.002	---	---	7
8	---	---	0 B	0.1658	5.14	2.58	1.30	0.226	0.002	0.002	---	---	8
9	---	---	0 B	0.3038	4.47	2.34	1.29	0.182	0.002	0.002	---	---	9
10	---	---	0 B	0.6288	3.88	2.32	1.18	0.165	0.002	0.002	---	---	10
11	---	---	0 B	1.10 B	3.40	2.18	0.976	0.176	0.002	0.002	---	---	11
12	---	---	0 B	1.40 B	3.27	2.01	2.50	0.182	0.001	0.002	---	---	12
13	---	---	0 B	1.57 B	3.08	1.90	3.10	0.171	0.001	0.002	---	---	13
14	---	---	0 B	1.57 B	2.78	1.80	3.09	0.140	0.001	0.002	---	---	14
15	---	---	0 B	1.28 B	2.61	2.27	2.59	0.102	0.001	0.002	---	---	15
16	---	---	0 B	1.16 B	3.38	2.45	2.33	0.191	0.001	0.002	---	---	16
17	---	---	0 B	1.27 B	3.73	2.39	1.95	0.248	0.001	0.002	---	---	17
18	---	---	0 B	1.17 B	3.92	2.21	1.71	0.063	0.001	0.002	---	---	18
19	---	---	0 B	1.78 B	4.48	1.89	1.43	0.037	0.001	0.002	---	---	19
20	---	---	0 B	8.08 B	5.17	1.78	2.60	0.027	0.001	0.002	---	---	20
21	---	---	0 B	19.8 B	6.03	1.62	3.77	0.019	0.001	0.002	---	---	21
22	---	---	0 B	21.6 B	8.77	1.58	3.21	0.014	0.001	0.002	---	---	22
23	---	---	0 B	19.2 B	7.26	1.47	2.78	0.011	0.001	0.002	---	---	23
24	---	---	0 B	15.5 B	7.35	1.38	2.36	0.009	0.001	0.002	---	---	24
25	---	---	0 B	18.8	7.28	1.34	2.02	0.007	0.001	0.002	---	---	25
26	---	---	0.0018	18.6	7.03	1.16	1.83	0.006	0.001	0.002	---	---	26
27	---	---	0.0028	18.3	6.45	1.03	1.48	0.005	0.001	0.002	---	---	27
28	---	---	0.0048	20.1	5.75	0.985	1.14	0.004	0.001	0.002	---	---	28
29	---		0.0098	20.0	5.27	1.05	0.921	0.004	0.001	0.002	---	---	29
30	---		0.0188	18.0	4.77	1.10	0.913	0.004	0.001	0.002	---	---	30
31	---		0 0328		4.08		0.874	0.004		0.002	---	---	31
TOTAL	---	---	0.084	217.417	188.38	82 485	55.348	5.882	0 044	0.059	---	---	TOTAL
MEAN	---	---	0.002	7.25	6.08	2.08	1.79	0.190	0.001	0.002	---	---	MEAN
MAX	---	---	0.032	21.6	15.3	3.57	3.77	0.849	0.003	0.003	---	---	MAX
MIN	---	---	0	0.055	2.78	0.985	0.874	0.004	0.001	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.16
MAXIMUM DAILY, 21.68 ON APR 22
MINIMUM DAILY, 00 ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 31 50 N
LONG 100 57 00 W
DRAINAGE AREA, 1 120 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 780
FEB	---	AUG	508
MAR	5.53	SEP	3.80
APR	18 800	OCT	5.10
MAY	16 300	NOV	---
JUN	5 400	DEC	---

TOTAL DISCHARGE, 45 800 dam³

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.0218	0.0308	0.424	0.743	0.207	0.013	0	0	---	---	1
2	---	---	0.0218	0.0288	0.351	0.240	0.226	0.012	0	0	---	---	2
3	---	---	0.0218	0.0268	0.282	0.358	0.264	0.015	0	0	---	---	3
4	---	---	0.0218	0.0238	0.233	0.422	0.223	0.013	0	0	---	---	4
5	---	---	0.0218	0.0218	0.231	0.430	0.188	0.012	0	0	---	---	5
6	---	---	0.0218	0.0218	0.206	0.387	0.164	0.011	0	0	---	---	6
7	---	---	0.0218	0.0218	0.188	0.364	0.105	0.010	0	0	---	---	7
8	---	---	0.0218	0.0648	0.182	0.328	0.083	0.005	0	0	---	---	8
9	---	---	0.0218	0.1078	0.197	0.310	0.075	0	0	0	---	---	9
10	---	---	0.0218	0.1498	0.211	0.304	0.148	0	0	0	---	---	10
11	---	---	0.0218	0.1768	0.214	0.281	0.314	0	0	0	---	---	11
12	---	---	0.0218	0.1808	0.220	0.272	0.328	0	0	0	---	---	12
13	---	---	0.0218	0.1498	0.223	0.311	0.338	0	0	0.015	---	---	13
14	---	---	0.0218	0.1358	0.207	0.284	0.177	0	0	0.026	---	---	14
15	---	---	0.0218	0.1188	0.201	0.256	0.133	0	0	0.028	---	---	15
16	---	---	0.0218	0.1028	0.253	0.239	0.140	0	0	0.033	---	---	16
17	---	---	0.0218	0.0938	0.588	0.213	0.174	0	0	0.029	---	---	17
18	---	---	0.0218	0.0918	1.55	0.242	0.149	0	0	0.022	---	---	18
19	---	---	0.0218	0.1158	1.61	0.232	0.145	0	0	0.024	---	---	19
20	---	---	0.0218	0.4108	1.61	0.207	0.116	0	0	0.025	---	---	20
21	---	---	0.0218	1.15 B	1.12	0.192	0.089	0	0	0.028	---	---	21
22	---	---	0.0218	2.98 B	0.826	0.220	0.086	0	0	0.030	---	---	22
23	---	---	0.0218	4.03 B	0.612	0.213	0.040	0	0	0.029	---	---	23
24	---	---	0.0218	5.26 B	0.498	0.204	0.031	0	0	0.034	---	---	24
25	---	---	0.0218	5.02 B	0.402	0.178	0.025	0	0	0.044	---	---	25
26	---	---	0.0218	3.75	0.365	0.162	0.020	0	0	0.030	---	---	26
27	---	---	0.0218	2.13	0.356	0.132	0.015	0	0	0.027	---	---	27
28	---	---	0.0218	1.17	0.333	0.114	0.013	0	0	0.032	---	---	28
29	---		0.0218	0.753	0.314	0.103	0.012	0	0	0.028	---	---	29
30	---		0.0258	0.548	0.272	0.198	0.020	0	0	0.028	---	---	30
31	---		0.0308		0.270		0.015	0		0.031		---	31
TOTAL	---	---	0.684	29.853	14.730	7.859	3.961	0.092	0	0.591	---	---	TOTAL
MEAN	---	---	0.021	0.982	0.475	0.255	0.128	0.003	0	0.019	---	---	MEAN
MAX	---	---	0.030	5.25	1.61	0.430	0.328	0.015	0	0.044	---	---	MAX
MIN	---	---	0.021	0.021	0.182	0.103	0.012	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.231
MAXIMUM DAILY, 5.250 ON APR 24
MINIMUM DAILY, 0 ON AUG 5

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 50 N
LONG 99 27 00 W
DRAINAGE AREA, 82.9 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	342
FEB	---	AUG	7.96
MAR	57.4	SEP	0
APR	2 490	OCT	51.1
MAY	1 270	NOV	---
JUN	662	DEC	---

TOTAL DISCHARGE, 4 880 dam³

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.4588	0.3678	0.2998	0.882	4.18	6.53	8.85	1.07	0.153	0.128	0.257A	0.2598	1
2	0.4628	0.3618	0.2898	0.809	4.02	6.19	8.97	1.04	0.130	0.126	0.257	0.2618	2
3	0.4588	0.3468	0.3048	0.907	3.95	6.53	10.5	0.980	0.105	0.121	0.251	0.2588	3
4	0.4588	0.3348	0.3038	1.07	3.93	6.89	11.2	0.930	0.083	0.116	0.250	0.2578	4
5	0.4808	0.3298	0.3248	1.28	3.81	7.30	10.2	0.859	0.078	0.127	0.246	0.2538	5
6	0.4508	0.3198	0.3828	1.45	3.91	7.56	9.20	0.795	0.090	0.138	0.246	0.2498	6
7	0.4438	0.3228	0.4618	1.56	3.92	7.28	8.43	0.781	0.090	0.134	0.245	0.2388	7
8	0.4338	0.3218	0.4488	1.78	4.05	7.35	7.49	0.681	0.077	0.122A	0.238	0.2128	8
9	0.4278	0.3178	0.4318	2.04	3.84	7.55	6.91	0.627	0.070	0.114E	0.233	0.2028	9
10	0.4388	0.3238	0.4248	2.46	3.91	7.36	6.33	0.618	0.083	0.112E	0.228	0.1948	10
11	0.4188	0.3258	0.4158	2.87	4.48	7.02	5.74	0.577	0.083	0.114E	0.223	0.1898	11
12	0.4148	0.3278	0.4118	3.08	5.35	6.58	5.43	0.527	0.064	0.112E	0.221	0.1908	12
13	0.4158	0.3288	0.4158	3.09	6.06	6.23	5.06	0.485	0.078	0.120E	0.220	0.1918	13
14	0.4098	0.3308	0.3918	2.80	6.47	5.95	4.69	0.459	0.082	0.120E	0.222	0.1928	14
15	0.4078	0.3338	0.3898	2.61	6.59	6.08	4.41	0.433	0.079	0.120E	0.220	0.1908	15
16	0.4088	0.3288	0.3948	2.33	6.47	6.83	4.03	0.404	0.082	0.122E	0.221	0.1848	16
17	0.4078	0.3248	0.3958	2.02	6.31	6.46	3.87	0.378	0.090	0.124E	0.222	0.1838	17
18	0.4088	0.3258	0.3968	1.84	6.32	5.82	3.36	0.360	0.084	0.126E	0.223	0.1878	18
19	0.4118	0.3248	0.4048	1.69	6.08	5.32	3.11	0.323	0.080	0.118E	0.226	0.1858	19
20	0.3988	0.3218	0.4098	1.91	7.50	5.17	2.86	0.302	0.078	0.120E	0.2498	0.1828	20
21	0.3958	0.3218	0.4148	2.11	7.54	7.01	2.64	0.291	0.085	0.124E	0.2618	0.1798	21
22	0.4018	0.3138	0.4148	2.60	7.38	12.0	2.44	0.269	0.085	0.132E	0.2638	0.1768	22
23	0.3988	0.3048	0.4198	2.85	7.20	13.6	2.18	0.256	0.094	0.174E	0.2638	0.1738	23
24	0.3978	0.2978	0.4248	3.15	7.51	12.1	2.00	0.247	0.094	0.198E	0.2648	0.1728	24
25	0.3888	0.2988	0.4388	3.33	7.77	10.9	1.83	0.231	0.089	0.200E	0.2678	0.1768	25
26	0.3878	0.2958	0.4538	3.65	7.80	11.4	1.71	0.207	0.088	0.204E	0.2708	0.1858	26
27	0.3838	0.2988	0.4718	4.36	7.37	11.1	1.60	0.202	0.085	0.220E	0.2708	0.1868	27
28	0.3858	0.3008	0.4768	4.68	7.26	9.72	1.47	0.188	0.080	0.236E	0.2708	0.1838	28
29	0.3788		0.4718	4.57	7.15	8.49	1.35	0.169	0.076	0.244E	0.2718	0.1818	29
30	0.3668		0.4868	4.34	7.01	8.02	1.23	0.182	0.088	0.252E	0.2728	0.1818	30
31	0.3618		0.5398		6.74		1.15	0.161		0.254E		0.1808	31
TOTAL	12.825	9.027	12.760	73.918	182.80	238.37	149.84	14.894	2.891	4.681	7.389	5.241	TOTAL
MEAN	0.414	0.322	0.410	2.46	5.89	7.88	4.83	0.484	0.096	0.151	0.246	0.201	MEAN
MAX	0.488	0.367	0.539	4.68	7.77	13.6	11.2	1.07	0.153	0.254	0.272	0.269	MAX
MIN	0.361	0.295	0.399	0.882	3.84	5.17	1.15	0.161	0.053	0.112	0.220	0.173	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.95
MAXIMUM DAILY, 13.6 ON JUN 23
MINIMUM DAILY, 0.053 ON SEP 10
MAXIMUM INSTANTANEOUS,
13.8 AT 11:13 CST ON JUN 23

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 51 42 N
LONG 95 15 10 W
DRAINAGE AREA, 712 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 110	JUL	12 900
FEB	780	AUG	1 300
MAR	1 100	SEP	224
APR	6 380	OCT	404
MAY	15 800	NOV	837
JUN	20 600	DEC	539

TOTAL DISCHARGE, 61 800 dam³

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05KB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	15.38	14.18	12.38	13.58	48.1	70.0	169	72.1	31.4	18.2	16.3	13.4 B	1
2	15.28	14.18	12.58	13.88	47.9	69.0	163	70.1	30.3	16.1	16.3	13.1 B	2
3	15.18	14.08	12.48	14.18	46.1	68.4	159	68.3	28.8	17.8	15.8	12.8 B	3
4	15.48	14.08	12.48	14.78	48.6	71.5	156	66.8	28.8	17.4	15.6	12.8 B	4
5	15.38	13.78	12.38	15.38	49.5	74.1	159	65.0	27.7	18.2	15.5	12.6 B	5
6	15.48	13.28	12.78	15.78	50.1	74.6	156	62.7	27.2	18.1	15.5	12.2 B	6
7	15.38	13.28	12.68	16.58	49.8	74.2	152	60.4	26.5	17.4	15.5	12.1 B	7
8	15.28	12.78	12.78	17.88	49.1	73.3	150	58.7	25.9	18.6	17.9	11.7 B	8
9	15.38	13.18	12.98	20.58	48.7	72.7	146	57.4	25.4	16.4	15.4	11.3 B	9
10	15.08	13.58	13.08	25.18	48.5	71.1	145	56.6	26.3	16.1	15.3	10.7 B	10
11	14.88	13.58	13.28	29.68	48.5	69.8	145	55.4	28.2	17.1	15.1	10.6 B	11
12	14.58	13.58	13.28	31.88	49.0	68.5	141	55.4	24.4	17.2	15.0	10.2 B	12
13	14.48	13.88	13.28	31.38	52.2	73.4	137	54.5	24.1	16.9	14.8	10.2 B	13
14	14.58	13.68	13.38	29.78	60.8	81.5	133	52.0	23.3	17.2	14.7	10.0 B	14
15	14.88	13.78	13.28	28.38	65.2	81.5	128	49.8	22.5	17.4	14.6	9.848	15
16	14.48	13.98	13.38	27.18	66.1	81.7	124	47.8	22.0	18.4	14.5	9.588	16
17	14.48	13.58	13.38	26.68	66.4	80.0	119	46.1	21.4	18.5	14.4	9.408	17
18	14.48	13.48	13.18	25.78	65.6	77.0	112	44.8	23.0	16.9	14.4	9.408	18
19	14.58	13.38	13.18	26.08	66.7	74.6	109	46.9	22.9	16.7	14.4	9.048	19
20	14.68	13.08	13.28	27.88	69.2	76.1	105	42.5	21.6	16.6	14.6	8.718	20
21	14.58	13.18	13.08	31.58	71.8	84.2	102	40.9	21.2	16.4	14.7	8.578	21
22	14.68	13.08	12.88	36.18	74.0	112	99.7	39.7	20.1	16.3	14.8	8.438	22
23	14.88	13.18	12.68	38.38	75.1	125	96.5	38.1	19.6	16.1	14.9	8.308	23
24	14.58	12.88	12.48	38.78	74.8	126	92.7	37.3	19.4	16.0	14.78	8.188	24
25	14.38	12.38	12.78	42.08	74.6	175	89.1	36.6	19.2	16.2	14.78	8.058	25
26	14.58	12.48	12.68	43.5	74.4	240	86.7	36.4	19.1	16.2	14.58	7.988	26
27	14.28	12.68	12.88	45.3	73.0	234	84.2	35.8	18.9	16.4	14.58	7.918	27
28	14.28	12.58	13.08	47.1	72.2	217	81.8	34.7	20.3	17.5	14.38	7.838	28
29	14.48		13.38	47.3	72.2	198	79.2	33.9	18.7	16.6	13.88	7.768	29
30	14.38		13.58	47.5	71.7	178	76.8	33.0	18.2	16.5	13.58	7.658	30
31	14.28		13.58		71.0		74.4	32.2		16.3		7.558	31
TOTAL	468.2	372.4	400.1	868.4	1 802.2	3 194.4	3 771.1	1 532.9	709.5	529.8	450.1	307.84	TOTAL
MEAN	14.7	13.3	12.9	28.9	81.4	106	122	49.4	23.7	17.1	15.0	9.93	MEAN
MAX	15.4	14.1	13.5	47.5	75.1	240	169	72.1	31.4	19.2	17.9	13.4	MAX
MIN	14.2	12.3	12.3	13.5	47.9	68.4	74.4	32.2	18.2	16.0	13.5	7.55	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 38.7
MAXIMUM DAILY, 240 ON JUN 26
MINIMUM DAILY, 7.558 ON DEC 31
MAXIMUM INSTANTANEOUS,
243 AT 14:05 CST ON JUN 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 42 52 N
LONG 96 36 44 W
DRAINAGE AREA, 9 090 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	39 400	JUL	326 000
FEB	32 200	AUG	132 000
MAR	34 800	SEP	61 300
APR	75 000	OCT	45 600
MAY	184 000	NOV	38 900
JUN	276 000	DEC	26 600

TOTAL DISCHARGE, 1 250 000 dam³

BOYNE RIVER ABOVE CARMAN DAM - STATION NO. 05DFA01

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	282.545E	282.480	282.480E	282.418	282.175E	282.298	282.414E	---	1
2	---	---	---	---	282.540	282.480E	282.490	282.408E	282.181E	282.298E	282.404	---	2
3	---	---	---	---	282.530E	282.480E	282.490E	282.398	282.208	282.298	282.417E	---	3
4	---	---	---	---	282.520	282.480	282.480	282.368E	282.208E	282.308E	282.430E	---	4
5	---	---	---	---	282.515E	282.475E	282.480E	282.378	282.208	282.318	282.444	---	5
6	---	---	---	---	282.510E	282.470	282.480	282.371E	282.218E	282.348E	282.394E	---	6
7	---	---	---	---	282.505	282.465E	282.483E	282.365E	282.228	282.378E	282.344	---	7
8	---	---	---	---	282.513E	282.460	282.488E	282.358	282.261E	282.408	282.344E	---	8
9	---	---	---	---	282.520	282.457E	282.500	282.353E	282.294E	282.418E	282.344	---	9
10	---	---	---	---	282.525E	282.453E	282.495E	282.348	282.328	282.428	282.341E	---	10
11	---	---	282.384	---	282.530	282.450	282.490	282.344E	282.263E	282.426E	282.337E	---	11
12	---	---	---	---	282.545E	282.450E	282.480E	282.341E	282.358	282.434	282.334	---	12
13	---	---	---	---	282.550	282.450	282.470	282.338	282.403E	282.434	282.334E	282.274	13
14	---	---	---	---	282.550	282.450E	282.480E	282.338E	282.408	282.434	282.334	---	14
15	---	---	---	---	282.550E	282.450E	282.480E	282.338	282.411E	282.438E	282.349E	---	15
16	---	---	---	---	282.550	282.450	282.440	282.308E	282.415E	282.437E	282.364	---	16
17	---	---	---	---	282.540E	282.450E	282.440E	282.278E	282.418	282.439	282.384E	---	17
18	---	---	---	---	282.530	282.450	282.440E	282.248	282.418E	282.440E	282.384	---	18
19	---	---	---	282.740	282.520E	282.450E	282.440	282.233E	282.418	282.442E	282.384E	---	19
20	---	---	---	282.730E	282.510E	282.450	282.440E	282.218	282.393E	282.444	282.384E	---	20
21	---	---	---	282.720	282.500	282.450E	282.440	282.198E	282.368	282.444E	282.384	---	21
22	---	---	---	282.695E	282.545E	282.450	282.440E	282.178	282.344E	282.444	282.384E	---	22
23	---	---	---	282.670	282.590	282.453E	282.440	282.178E	282.321E	282.444E	282.384	---	23
24	---	---	---	282.663E	282.590E	282.457E	282.435E	282.178	282.298	282.444	282.384E	---	24
25	---	---	---	282.655E	282.590	282.460	282.430	282.178E	282.298E	282.444E	282.384E	---	25
26	---	---	---	282.650	282.590E	282.480E	282.433	282.178	282.298	282.444E	282.384	---	26
27	---	---	---	282.625E	282.590E	282.460E	282.428	282.181E	282.298E	282.444	---	---	27
28	---	---	---	282.600	282.590	282.460	282.425E	282.148E	282.298	282.448E	---	---	28
29	---		---	282.575E	282.545E	282.465E	282.421E	282.128	282.298E	282.444	---	---	29
30	---		---	282.550	282.500	282.470	282.418	282.143E	282.298E	282.434E	---	---	30
31	---		---		282.490E		282.418E	282.168		282.424		---	31
MEAN	---	---	---	---	282.540	282.480	282.456	282.277	282.315	282.410	---	---	MEAN
MAX	---	---	---	---	282.590	282.480	282.500	282.418	282.418	282.444	---	---	MAX
MIN	---	---	---	---	282.490	282.450	282.418	282.128	282.175	282.298	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 30 17 N
LONG 98 01 03 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.1230	0.1340	0.2040	2.068	1.70	0.391	0.254	0.025	0	0.029	0.118	0.0320	1
2	0.1230	0.1240	0.1760	5.608	1.62	0.381	0.242	0.020	0	0.032	0.105	0.0298	2
3	0.1230	0.1230	0.1300	9.328	1.42	0.432	0.386	0.011	0	0.035	0.110	0.0318	3
4	0.1240	0.1230	0.1140	7.378	1.30	0.412	0.436	0.004	0	0.035	0.121	0.0308	4
5	0.1240	0.1230	0.1010	11.3 B	1.16	0.413	0.312	0	0	0.037	0.122	0.0308	5
6	0.1250	0.1230	0.5800	16.2 B	1.00	0.401	0.303	0	0	0.036	0.117	0.0308	6
7	0.1250	0.1230	1.02 B	18.0 B	0.932	0.364	0.308	0	0	0.035	0.114	0.0328	7
8	0.1250	0.1220	0.7570	20.7 B	0.837	0.331	0.304	0	0	0.034	0.097	0.0268	8
9	0.1250	0.1220	0.4600	24.4 B	0.780	0.326	0.228	0	0	0.034	0.091	0.0218	9
10	0.1250	0.1210	0.3980	23.8 B	0.894	0.332	0.486	0	0	0.045	0.088	0.0178	10
11	0.1250	0.1210	0.1730	21.3 B	0.591	0.285	0.494	0	0	0.070	0.104	0.0188	11
12	0.1250	0.1210	0.2480	19.7 B	0.649	0.304	0.487	0	0	0.080	0.103	0.0178	12
13	0.1250	0.1200	0.5490	18.1 B	0.683	0.212	0.478	0	0	0.094	0.087	0.0158	13
14	0.1250	0.1200	0.5990	17.1 B	0.661	0.261	0.481	0	0	0.101	0.085	0.0128	14
15	0.1260	0.1200	0.4310	14.9 B	0.945	0.232	0.416	0	0	0.094	0.075	0.0088	15
16	0.1250	0.1200	0.3400	12.6 E	0.990	0.233	0.384	0	0	0.118	0.070	0.0078	16
17	0.1250	0.1190	0.1300	10.4 E	0.816	0.227	0.288	0	0	0.137	0.068	0.0048	17
18	0.1250	0.1190	0.0818	8.15E	0.639	0.196	0.138	0	0	0.116	0.067	0.0038	18
19	0.1250	0.1190	0.0778	5.91A	0.798	0.169	0.099	0	0	0.116	0.081	0.0028	19
20	0.1250	0.1180	0.0748	5.13	0.686	0.248	0.112	0	0.002	0.139	0.080	0	20
21	0.1250	0.1180	0.0688	5.18	0.636	0.187	0.072	0	0.021	0.152	0.0798	0	21
22	0.1250	0.1180	0.1068	5.36	0.574	0.314	0.061	0	0.022	0.165	0.0748	0	22
23	0.1250	0.1180	0.1158	4.57	0.626	0.217	0.034	0	0.020	0.181	0.0768	0	23
24	0.1250	0.1170	0.1838	3.88	0.585	0.320	0.020	0	0.009	0.174	0.0789	0	24
25	0.1250	0.1170	0.1898	3.17	0.576	0.440	0.024	0.138	0.008	0.183	0.0878	0	25
26	0.1250	0.2688	0.1778	2.78	0.585	0.384	0.025	0.256	0.008	0.182	0.0838	0	26
27	0.1250	0.2650	0.1998	2.84	0.601	0.300	0.014	0.280	0.011	0.177	0.0448	0	27
28	0.1250	0.2368	0.2468	2.39	0.471	0.293	0.014	0.147	0.014	0.189	0.0388	0	28
29	0.1250		0.3118	2.15	0.485	0.255	0.012	0.076	0.018	0.144	0.0378	0	29
30	0.1248		0.7258	2.01	0.502	0.256	0.015	0.023	0.025	0.185	0.0368	0	30
31	0.1248		1.61 B		0.484		0.030	0.005		0.140		0	31
TOTAL	3.683	3.789	10.582	304.92	25.310	8.872	7.145	0.984	0.156	3.180	2.456	0.395	TOTAL
MEAN	0.128	0.135	0.341	10.2	0.816	0.296	0.230	0.031	0.005	0.103	0.082	0.012	MEAN
MAX	0.125	0.268	1.61	24.4	1.70	0.440	0.494	0.280	0.025	0.189	0.122	0.039	MAX
MIN	0.123	0.119	0.077	2.01	0.484	0.187	0.012	0	0	0.029	0.035	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.02
MAXIMUM DAILY, 24.40 ON APR 9
MINIMUM DAILY, 0 ON AUG 5

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 00 N
LONG 97 56 40 W
DRAINAGE AREA, 975 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	334	JUL	617
FEB	327	AUG	83.3
MAR	914	SEP	13.5
APR	26 300	OCT	275
MAY	2 190	NOV	212
JUN	767	DEC	33.3

TOTAL DISCHARGE, 32 100 dam³

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.0228	5.33 B	0.749	0.095	0.051	0	0	0	---	---	1
2	---	---	0.0228	5.46 B	0.636	0.085	0.047	0	0	0	---	---	2
3	---	---	0.0268	6.92 B	0.552	0.101	0.087	0	0	0	---	---	3
4	---	---	0.0318	13.0 B	0.487	0.113	0.075	0	0	0	---	---	4
5	---	---	0.0588	13.9 B	0.422	0.128	0.060	0	0	0	---	---	5
6	---	---	0.3308	13.6	0.378	0.103	0.045	0	0	0	---	---	6
7	---	---	0.2708	15.6	0.326	0.081	0.032	0	0	0	---	---	7
8	---	---	0.2108	16.7	0.307	0.091	0.008	0	0	0	---	---	8
9	---	---	0.1508	15.3	0.272	0.066	0	0	0	0	---	---	9
10	---	---	0.1138	15.7	0.282	0.057	0	0	0	0	---	---	10
11	---	---	0.1098	15.9	0.244	0.054	0	0	0	0	---	---	11
12	---	---	0.2748	14.7	0.250	0.037	0	0	0	0	---	---	12
13	---	---	0.5718	11.8	0.643	0.035	0	0	0	0	---	---	13
14	---	---	0.2208	7.67	0.319	0.040	0	0	0	0	---	---	14
15	---	---	0.3888	6.24	0.230	0.048	0	0	0	0	---	---	15
16	---	---	0.1698	6.21	0.200	0.048	0	0	0	0	---	---	16
17	---	---	0.1958	5.32	0.131	0.036	0	0	0	0	---	---	17
18	---	---	0.2768	4.90	0.104	0.027	0	0	0	0	---	---	18
19	---	---	0.2348	4.48	0.106	0.022	0	0	0	0	---	---	19
20	---	---	0.1808	4.24	0.186	0.031	0	0	0	0	---	---	20
21	---	---	0.1918	3.88	0.155	0.108	0	0	0	0	---	---	21
22	---	---	0.1608	3.32	0.137	0.108	0	0	0	0	---	---	22
23	---	---	0.1248	2.75	0.130	0.122	0	0	0	0	---	---	23
24	---	---	0.1148	2.46	0.118	0.083	0	0	0	0	---	---	24
25	---	---	0.1568	2.16	0.088	0.093	0	0	0	0	---	---	25
26	---	---	0.1138	1.96	0.078	0.078	0	0	0	0	---	---	26
27	---	---	0.1158	1.88	0.118	0.080	0	0	0	0	---	---	27
28	---	---	0.2628	1.83	0.103	0.043	0	0	0	0	---	---	28
29	---		0.6858	1.32	0.095	0.031	0	0	0	0	---	---	29
30	---		1.20 B	0.995	0.095	0.044	0	0	0	0	---	---	30
31	---		3.84 B		0.089		0	0		0		---	31
TOTAL	---	---	10.725	225.825	7.964	2.051	0.383	0	0	0	---	---	TOTAL
MEAN	---	---	0.346	7.53	0.258	0.066	0.013	0	0	0	---	---	MEAN
MAX	---	---	3.84	15.9	0.749	0.128	0.087	0	0	0	---	---	MAX
MIN	---	---	0.022	0.995	0.078	0.023	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.01
MAXIMUM DAILY, 15.9 ON APR 11
MINIMUM DAILY, 0 ON JUL 8
MAXIMUM INSTANTANEOUS,
16.3 AT 22:55 CST ON APR 9

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 32 39 N
LONG 98 24 52 W
DRAINAGE AREA, 585 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	36.0
FEB	---	AUG	0
MAR	837	SEP	0
APR	19 500	OCT	0
MAY	890	NOV	---
JUN	177	DEC	---

TOTAL DISCHARGE, 21 300 dam³

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05BF008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.1598	0.1458	0.1008	7.838	1.31	0.344	0.382	0.022	0.133	0.143	0.135	0.008	1
2	0.1598	0.1438	0.0988	8.268	1.18	0.348	0.386	0.008	0.136	0.111	0.141	0.018	2
3	0.1598	0.1428	0.0988	8.788	1.05	0.381	0.386	0.012	0.113	0.115	0.123	0.050	3
4	0.1598	0.1408	0.0958	12.2 E	0.888	0.315	0.357	0.021	0.098	0.131	0.114	0.057	4
5	0.1598	0.1388	0.0838	14.7 E	0.828	0.283	0.383	0.034	0.100	0.127	0.134	0.038	5
6	0.1598	0.1378	0.1348	17.8 E	0.765	0.298	0.398	0.053	0.089	0.139	0.135	0.032	6
7	0.1598	0.1358	0.3968	22.2 E	0.714	0.245	0.475	0.078	0.117	0.185	0.119	0.0258	7
8	0.1598	0.1348	0.2508	26.4 E	0.637	0.288	0.638	0.074	0.129	0.118	0.055	0.0248	8
9	0.1598	0.1328	0.1208	30.0 E	0.570	0.190	0.648	0.089	0.158	0.134	0.013	0.0248	9
10	0.1598	0.1308	0.1088	27.5	0.581	0.201	0.670	0.107	0.107	0.152	0.004	0.0238	10
11	0.1598	0.1298	0.1108	23.0	0.555	0.202	0.651	0.283	0.067	0.170	0.005	0.0238	11
12	0.1598	0.1278	0.2158	20.0	0.543	0.156	0.648	0.228	0.073	0.178	0.006	0.0228	12
13	0.1588	0.1258	0.1758	15.1	0.845	0.177	0.580	0.169	0.082	0.187	0.007	0.0218	13
14	0.1588	0.1248	0.1738	10.7	0.948	0.176	0.473	0.119	0.058	0.178	0.012	0.0218	14
15	0.1588	0.1238	0.1758	7.49	0.893	0.186	0.149	0.142	0.073	0.153	0.012	0.0208	15
16	0.1588	0.1218	0.1788	6.81	0.794	0.151	0.091	0.135	0.038	0.141	0.017	0.0208	16
17	0.1588	0.1198	0.1788	6.85	0.736	0.143	0.073	0.134	0.040	0.130	0.017	0.0198	17
18	0.1588	0.1178	0.1738	5.88	0.639	0.128	0.080	0.213	0.007	0.155	0.004	0.0188	18
19	0.1588	0.1158	0.1918	5.26	0.585	0.137	0.067	0.304	0.006	0.170	0.003	0.0158	19
20	0.1588	0.1148	0.2088	5.50	0.648	0.155	0.079	0.288	0.005	0.176	0.002	0.0128	20
21	0.1588	0.1128	0.2088	5.80	0.607	0.193	0.112	0.288	0.004	0.162	0.002	0.0108	21
22	0.1588	0.1118	0.2158	4.77	0.545	0.481	0.126	0.378	0.003	0.175	0.001	0.0088	22
23	0.1588	0.1098	0.2208	3.89	0.582	0.394	0.113	0.414	0.002	0.178	0.001	0.0078	23
24	0.1588	0.1088	0.2248	3.26	0.518	0.355	0.073	0.418	0.003	0.183	0.005	0.0068	24
25	0.1588	0.1088	0.2298	2.81	0.488	0.354	0.048	0.182	0.003	0.189	0.027	0.0068	25
26	0.1558	0.1048	0.2348	2.84	0.439	0.312	0.038	0.032	0.003	0.172	0.115	0.0068	26
27	0.1538	0.1038	0.2388	2.15	0.472	0.228	0.044	0.004	0.185	0.169	0.034	0.0068	27
28	0.1518	0.1018	0.2438	1.83	0.443	0.233	0.027	0.003	0.150	0.159	0.010	0.0068	28
29	0.1508		0.2478	1.61	0.395	0.325	0.039	0.050	0.172	0.155	0.028	0.0058	29
30	0.1488		0.2528	1.45	0.350	0.348	0.071	0.074	0.174	0.151	0.008	0.0058	30
31	0.1478		1.75 B		0.348		0.035	0.121		0.151		0.0058	31
TOTAL	4.884	3.686	7.330	314.50	20.740	7.888	8.222	4.548	2.334	4.810	1.290	0.858	TOTAL
MEAN	0.157	0.123	0.236	10.5	0.669	0.256	0.265	0.147	0.078	0.155	0.043	0.018	MEAN
MAX	0.159	0.145	1.75	30.0	1.31	0.481	0.670	0.418	0.185	0.187	0.141	0.057	MAX
MIN	0.147	0.101	0.093	1.45	0.348	0.129	0.027	0.004	0.002	0.111	0.001	0.005	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.04
MAXIMUM DAILY, 30.0B ON APR 9
MINIMUM DAILY, 0.001 ON NOV 22
MAXIMUM INSTANTANEOUS,
32.0B AT 13:45 CST ON APR 9

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 48 N
LONG 98 10 58 W
DRAINAGE AREA, 873 km²

B - ICE CONDITIONS

REGULATED SINCE 1984

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	420	JUL	710
FEB	298	AUG	393
MAR	632	SEP	202
APR 27	200	OCT	416
MAY 1	780	NOV	111
JUN	662	DEC	48.2

TOTAL DISCHARGE, 32 900 dam³

BOYNE RIVER NEAR TREHERNE - STATION NO. 05BF010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.57 B	0.384	0.077	---	---	---	---	---	---	1
2	---	---	0 B	3.28 B	0.308	0.074	---	---	---	---	---	---	2
3	---	---	0 B	3.87 B	0.372	0.075	---	---	---	---	---	---	3
4	---	---	0 B	3.75	0.263	0.057	---	---	---	---	---	---	4
5	---	---	0 B	4.75	0.225	0.057	---	---	---	---	---	---	5
6	---	---	0 B	5.36	0.211	0.049	---	---	---	---	---	---	6
7	---	---	0 B	6.47	0.188	0.042	---	---	---	---	---	---	7
8	---	---	0 B	6.44	0.173	0.040	---	---	---	---	---	---	8
9	---	---	0 B	12.3	0.168	0.035	---	---	---	---	---	---	9
10	---	---	0 B	11.9	0.158	0.028	---	---	---	---	---	---	10
11	---	---	0 B	10.1	0.150	0.018	---	---	---	---	---	---	11
12	---	---	0.0088	6.77	0.165	0.013	---	---	---	---	---	---	12
13	---	---	0.0708	4.96	0.256	0.032	---	---	---	---	---	---	13
14	---	---	0.2258	3.78	0.288	0.042	---	---	---	---	---	---	14
15	---	---	0.4888	3.26	0.249	0.041	---	---	---	---	---	---	15
16	---	---	0.3138	2.62	0.207	0.054	---	---	---	---	---	---	16
17	---	---	0.2158	2.21	0.176	0.049	---	---	---	---	---	---	17
18	---	---	0.1438	1.95	0.189	0.030	---	---	---	---	---	---	18
19	---	---	0.1058	1.79	0.213	0.012	---	---	---	---	---	---	19
20	---	---	0.0648	2.08	0.268	0.011	---	---	---	---	---	---	20
21	---	---	0.0708	1.97	0.275	0.006	---	---	---	---	---	---	21
22	---	---	0.0498	1.48	0.216	0.022	---	---	---	---	---	---	22
23	---	---	0.0268	1.16	0.191	0.030	---	---	---	---	---	---	23
24	---	---	0.0328	0.938	0.178	0.085	---	---	---	---	---	---	24
25	---	---	0.0308	0.838	0.153	0.094	---	---	---	---	---	---	25
26	---	---	0.0248	0.808	0.148	0.075	---	---	---	---	---	---	26
27	---	---	0.0228	0.897	0.135	0.054	---	---	---	---	---	---	27
28	---	---	0.0278	0.867	0.113	0.038	---	---	---	---	---	---	28
29	---		0.0488	0.681	0.054	0.011	---	---	---	---	---	---	29
30	---		3.14 B	0.611	0.060	0.024	---	---	---	---	---	---	30
31	---		11.4 B		0.060		---	---	---	---	---	---	31
TOTAL	---	---	16.117	116.288	6.098	1.276	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.520	3.88	0.197	0.043	---	---	---	---	---	---	MEAN
MAX	---	---	11.4	12.3	0.384	0.094	---	---	---	---	---	---	MAX
MIN	---	---	0	0.611	0.054	0.006	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.18
MAXIMUM DAILY, 12.3 ON APR 9
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
14.9 AT 03:35 CST ON APR 9

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 40 15 N
LONG 98 38 35 W
DRAINAGE AREA, 277 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR 1	390	SEP	---
APR 10	000	OCT	---
MAY	527	NOV	---
JUN	110	DEC	---

TOTAL DISCHARGE, 12 000 dam³

BRERETON LAKE NEAR RENNIE - STATION NO. 05PE003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	316.086	315.991	315.882	315.747	315.665	---	---	1
2	---	---	---	---	---	316.091	315.992	315.880	315.744	315.666	---	---	2
3	---	---	---	---	---	316.091	315.997	315.874	315.734	315.665	---	---	3
4	---	---	---	---	---	316.082	315.994	315.872	315.722	315.667	---	---	4
5	---	---	---	---	---	316.075	315.994	315.861	315.722	315.665	---	---	5
6	---	---	---	---	---	316.063	315.994	315.857	315.723	315.682	---	---	6
7	---	---	---	---	---	316.062	315.994	315.846	315.718	315.656	---	---	7
8	---	---	---	---	---	316.056	315.994	315.836	315.715	315.659	---	---	8
9	---	---	---	---	---	316.051	315.994	315.833	315.723	315.662	---	---	9
10	---	---	---	---	---	316.045	315.991	315.825	315 719	315.682	---	---	10
11	---	---	---	---	316.088A	316.040	315.985	315.822	315 707	315.659	---	---	11
12	---	---	---	---	316.112	316.036	315.974	315.818	315.703	315.652	---	---	12
13	---	---	---	---	316.135	316.028	315.968	315.809	315.699	315.651	---	---	13
14	---	---	---	---	316.137	316.032	315.984	315.805	315.696	315.649	---	---	14
15	---	---	---	---	316.151	316.036	315.951	315.799	315.693	315.650	---	---	15
16	---	---	---	---	316.162	316.032	315.955	315.788	315.691	315.651	---	---	16
17	---	---	---	---	316.173	316.032	315.944	315.789	315.693	315.649	---	---	17
18	---	---	---	---	316.182	316.027	315.938	315.781	315.684	315.645	---	---	18
19	---	---	---	---	316.176	316.023	315.934	315.770	315.674	315.646	---	---	19
20	---	---	---	---	316.177	316.019	315.930	315.765	315.668	315.649	---	---	20
21	---	---	---	---	316.173	316.017	315.921	315.770	315.669	315.647	---	---	21
22	---	---	---	---	316.162	316.024	315.913	315.768	315.667	315.644	---	---	22
23	---	---	---	---	316.156	316.025	315.901	315.764	315.669	315.645	---	---	23
24	---	---	---	---	316.148	316.021	315.896	315.765	315.684	315.645	---	---	24
25	---	---	---	---	316.142	316.020	315.892	315.765	315.658	315.646	---	---	25
26	---	---	---	---	316.137	316.013	315.889	315.765	315.659	315.643	---	---	26
27	---	---	---	---	316.128	316.006	315.884	315.763	315.661	315.641	---	---	27
28	---	---	---	---	316.122	316.000	315.890	315.762	315.659	315.636	---	---	28
29	---		---	---	316.115	315.993	315.885	315.757	315.653	315.640	---	---	29
30	---		---	---	316.107	315.993	315.883	315.756	315.655	315.639	---	---	30
31	---		---		316.102		315.885	315.755		315.640		---	31
MEAN	---	---	---	---	---	316.028	315.946	315.803	315 693	315.652	---	---	MEAN
MAX	---	---	---	---	---	316.086	315.997	315.882	315.747	315.667	---	---	MAX
MIN	---	---	---	---	---	315.993	315.883	315.755	315.653	315.636	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 316.182 ON MAY 16

MAXIMUM INSTANTANEOUS,
316.188 AT 15:03 CST ON MAY 16

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 41 N
LONG 95 32 41 W

A - MANUAL GAUGE

REGULATED

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.3788	0.0098	0.0038	14.1 B	4.65	3.53	2.23	0.326	0.027	0.037	0.042	0.2848	1
2	0.4458	0.0098	0.0048	13.1 B	4.36	3.43	2.27	0.289	0.024	0.031	0.041	0.2458	2
3	0.4318	0.0108	0.0118	12.1 B	4.18	3.61	2.50	0.247	0.021	0.024	0.054A	0.2188	3
4	0.4538	0.0138	0.0258	13.7 B	4.07	3.93	2.95	0.201	0.017	0.025	0.054	0.2458	4
5	0.4668	0.0158	0.3058	15.1 B	3.98	4.09	3.29	0.112	0.018	0.027	0.088	0.2158	5
6	0.4418	0.0198	1.21 B	15.6 B	3.90	4.14	3.24	0.086	0.025	0.024	0.201	0.1218	6
7	0.3578	0.0208	1.78 B	14.7 B	3.78	3.99	3.38	0.048	0.026	0.025	0.247	0.1088	7
8	0.2698	0.0248	2.11 B	14.6 B	3.69	3.83	3.41	0.038	0.028	0.026	0.241	0.0948	8
9	0.1108	0.0178	1.55 B	15.8 B	3.59	3.65	3.33	0.034	0.037	0.026	0.225	0.0818	9
10	0.0458	0.0148	0.9548	18.0 B	3.45	3.44	3.31	0.037	0.028	0.028	0.2338	0.0678	10
11	0.0188	0.0138	0.6118	20.5 B	3.41	3.28	3.16	0.032	0.024	0.028	0.2798	0.0818	11
12	0.0098	0.0118	0.5528	19.7	3.46	2.89	2.97	0.028	0.025	0.027	0.2438	0.0948	12
13	0.0048	0.0108	0.8808	18.5	4.04	3.04	2.77	0.026	0.022	0.031	0.1968	0.1128	13
14	0.0018	0.0078	0.9488	14.4	4.82	2.98	2.55	0.025	0.019	0.027	0.2128	0.0818	14
15	0.0018	0.0068	0.8758	13.4	5.35	3.12	2.30	0.031	0.019	0.026	0.2568	0.0498	15
16	0.0048	0.0088	0.8578	12.2	5.77	3.27	2.05	0.037	0.020	0.027	0.3028	0.0398	16
17	0.0068	0.0078	0.6498	11.3	6.00	3.19	1.89	0.041	0.020	0.025	0.475	0.0338	17
18	0.0078	0.0138	0.5858	10.4	6.03	3.03	1.71	0.047	0.017	0.025	0.278	0.0268	18
19	0.0128	0.0158	0.5188	9.69	6.00	2.82	1.59	0.042	0.016	0.026	0.237	0.0288	19
20	0.0218	0.0158	0.5028	9.20	5.82	2.98	1.69	0.041	0.024	0.027	0.278	0.0308	20
21	0.0298	0.0148	0.5228	8.72	5.71	2.78	1.47	0.075	0.015	0.030	0.3138	0.0328	21
22	0.0108	0.0118	0.5718	8.18	5.50	3.01	1.27	0.042	0.025	0.030	0.2278	0.0358	22
23	0.0068	0.0108	0.6238	7.88	5.28	3.14	1.06	0.043	0.022	0.031	0.2348	0.0388	23
24	0.0168	0.0138	0.5318	7.19	5.03	3.01	1.09	0.065	0.017	0.042	0.2658	0.0408	24
25	0.0878	0.0188	0.3268	6.70	4.70	2.88	0.731	0.044	0.016	0.040	0.2908	0.0378	25
26	0.1028	0.0138	0.1718	6.31	4.38	2.74	0.667	0.039	0.016	0.037	0.3178	0.0338	26
27	0.0188	0.0078	0.0668	5.98	4.08	2.52	0.556	0.038	0.016	0.038	0.2788	0.0288	27
28	0.0158	0.0048	0.0438	5.56	4.00	2.33	0.480	0.037	0.018	0.036	0.2868	0.0258	28
29	0.0158		0.2188	5.23	3.89	2.16	0.427	0.036	0.015	0.037	0.3058	0.0328	29
30	0.0158		1.30 B	4.93	3.76	2.20	0.412	0.031	0.023	0.039	0.3188	0.0188	30
31	0.0138		7.89 B		3.65		0.423	0.029		0.042		0.0168	31
TOTAL	3.611	0.343	27.560	350.85	140.28	95.09	61.188	2.224	0.638	0.946	5.996	2.576	TOTAL
MEAN	0.123	0.012	0.889	11.7	4.53	3.17	1.97	0.072	0.021	0.031	0.233	0.083	MEAN
MAX	0.488	0.024	7.89	20.5	6.03	4.14	3.41	0.326	0.037	0.042	0.475	0.284	MAX
MIN	0.001	0.004	0.003	6.93	3.41	2.16	0.412	0.025	0.015	0.024	0.041	0.016	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.90
MAXIMUM DAILY, 20.58 ON APR 11
MINIMUM DAILY, 0.0018 ON JAN 14
MAXIMUM INSTANTANEOUS,
27.7 AT 23:28 CST ON APR 11

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 05 25 N
LONG 96 25 46 W
DRAINAGE AREA, 1 630 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	329	JUL	5 290
FEB	29.6	AUG	192
MAR	2 380	SEP	55.1
APR	30 300	OCT	81.7
MAY	12 100	NOV	804
JUN	8 220	DEC	223

TOTAL DISCHARGE, 59 800 dam³

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.478	1.78	0.776	0.702	0.033	0	0	---	---	1
2	---	---	0 B	2.348	1.68	0.782	0.786	0.037	0	0	---	---	2
3	---	---	0 B	2.988	1.56	0.952	0.921	0.019	0	0	---	---	3
4	---	---	0.0068	3.828	1.48	0.936	1.08	0.001	0	0	---	---	4
5	---	---	0.0408	4.828	1.41	0.912	1.14	0.011	0	0	---	---	5
6	---	---	0.1408	5.608	1.32	0.910	1.13	0.048	0	0	---	---	6
7	---	---	0.7008	8.838	1.23	0.943	1.11	0.078	0	0	---	---	7
8	---	---	1.02 B	9.35	1.14	1.01	1.08	0.117	0	0	---	---	8
9	---	---	0.7618	8.36	1.02	1.03	1.08	0.155	0	0	---	---	9
10	---	---	0.3998	9.88	0.942	1.04	1.08	0.174	0	0	---	---	10
11	---	---	0.3918	9.68	0.916	1.01	1.08	0.158	0	0	---	---	11
12	---	---	0.3108	9.05	0.971	1.00	1.08	0.112	0	0	---	---	12
13	---	---	0.3998	8.16	1.16	0.996	1.08	0.077	0	0	---	---	13
14	---	---	0.4588	7.60	1.21	0.933	1.01	0.028	0	0	---	---	14
15	---	---	0.4878	7.12	1.28	0.916	0.947	0	0	0	---	---	15
16	---	---	0.4798	6.77	1.36	0.883	0.877	0	0	0	---	---	16
17	---	---	0.5228	6.43	1.41	0.813	0.794	0	0	0	---	---	17
18	---	---	0.4368	6.15	1.43	0.748	0.716	0	0	0	---	---	18
19	---	---	0.4068	5.82	1.41	0.704	0.643	0	0	0	---	---	19
20	---	---	0.3808	5.42	1.38	0.704	0.577	0	0	0	---	---	20
21	---	---	0.3458	4.99	1.30	0.729	0.484	0	0	0	---	---	21
22	---	---	0.3288	4.53	1.22	0.853	0.391	0	0	0	---	---	22
23	---	---	0.3108	4.06	1.15	0.845	0.291	0	0	0	---	---	23
24	---	---	0.4388	3.65	1.08	0.784	0.197	0	0	0	---	---	24
25	---	---	0.3108	3.29	1.00	0.712	0.123	0	0	0	---	---	25
26	---	---	0.1858	2.98	0.935	0.669	0.053	0	0	0	---	---	26
27	---	---	0.0858	2.66	0.865	0.632	0.007	0	0	0	---	---	27
28	---	---	0.0108	2.39	0.900	0.608	0	0	0	0	---	---	28
29	---		0.0858	2.13	0.879	0.608	0	0	0	0	---	---	29
30	---		0.2458	1.98	0.833	0.689	0.006	0	0	0.018	---	---	30
31	---		1.80 B		0.800		0.014	0		0.248A		---	31
TOTAL	---	---	11.454	165.11	37.023	25.108	20.378	1.042	0	0.284	---	---	TOTAL
MEAN	---	---	0.369	5.50	1.19	0.837	0.657	0.034	0	0.009	---	---	MEAN
MAX	---	---	1.80	9.88	1.78	1.04	1.14	0.174	0	0.248	---	---	MAX
MIN	---	---	0	1.98	0.800	0.808	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.05
MAXIMUM DAILY, 9.88 ON APR 11
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
10.28 AT 09:01 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 07 N
LONG 96 21 57 W
DRAINAGE AREA, 847 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 780
FEB	---	AUG	90.0
MAR	980	SEP	0
APR	14 300	OCT	22.8
MAY	3 200	NOV	---
JUN	2 170	DEC	---

TOTAL DISCHARGE, 22 500 dam³

BUFFALO LAKE CHANNEL NEAR ALTONA - STATION NO. 05OC025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.46 B	0.087	0.035	0.013	0	0	0	---	---	1
2	---	---	0 B	9.09 B	0.087	0.036	0.020	0	0	0	---	---	2
3	---	---	0 B	8.21 B	0.075	0.041	0.031	0	0	0	---	---	3
4	---	---	0.0508	10.3 B	0.067	0.038	0.030	0	0	0	---	---	4
5	---	---	0.1508	11.4 B	0.058	0.041	0.031	0	0	0	---	---	5
6	---	---	0.3008	8.98 B	0.042	0.037	0.030	0	0	0	---	---	6
7	---	---	0.2508	4.75 B	0.036	0.036	0.028	0	0	0	---	---	7
8	---	---	0.1958	1.94 B	0.032	0.038	0.024	0	0	0	---	---	8
9	---	---	0.0178	0.8888	0.026	0.034	0.021	0	0	0	---	---	9
10	---	---	0 B	0.6198	0.016	0.035	0.016	0	0	0	---	---	10
11	---	---	0 B	0.4968	0.008	0.032	0.005	0	0	0	---	---	11
12	---	---	0 B	0.4088	0.012	0.028	0	0	0	0	---	---	12
13	---	---	0.0258	0.3498	0.026	0.026	0	0	0	0	---	---	13
14	---	---	0.1478	0.2758	0.025	0.026	0	0	0	0	---	---	14
15	---	---	0.2088	0.2258	0.026	0.025	0	0	0	0	---	---	15
16	---	---	0.0948	0.189	0.033	0.028	0	0	0	0	---	---	16
17	---	---	0.0188	0.168	0.067	0.027	0	0	0	0	---	---	17
18	---	---	0 B	0.146	0.094	0.024	0	0	0	0	---	---	18
19	---	---	0 B	0.124	0.098	0.021	0	0	0	0	---	---	19
20	---	---	0 B	0.110	0.088	0.018	0	0	0	0	---	---	20
21	---	---	0 B	0.102	0.091	0.017	0	0	0	0	---	---	21
22	---	---	0 B	0.116	0.077	0.035	0	0	0	0	---	---	22
23	---	---	0 B	0.146	0.073	0.035	0	0	0	0	---	---	23
24	---	---	0 B	0.151	0.068	0.033	0	0	0	0	---	---	24
25	---	---	0 B	0.149	0.066	0.032	0	0	0	0	---	---	25
26	---	---	0 B	0.140	0.062	0.025	0	0	0	0	---	---	26
27	---	---	0 B	0.127	0.054	0.020	0	0	0	0	---	---	27
28	---	---	0.0018	0.114	0.044	0.018	0	0	0	0	---	---	28
29	---		0.0328	0.107	0.038	0.013	0	0	0	0	---	---	29
30	---		0.1948	0.105	0.035	0.015	0	0	0	0	---	---	30
31	---		1.08 B		0.034		0	0		0	---	---	31
TOTAL	---	---	2.770	55.386	1.857	0.855	0.249	0	0	0	---	---	TOTAL
MEAN	---	---	0.089	2.21	0.054	0.029	0.008	0	0	0	---	---	MEAN
MAX	---	---	1.08	11.4	0.098	0.041	0.031	0	0	0	---	---	MAX
MIN	---	---	0	0.102	0.008	0.013	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.284
MAXIMUM DAILY, 11.4B ON APR 5
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
13.4B AT 21:20 CST ON APR 4

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 28 N
LONG 97 36 35 W
DRAINAGE AREA, 448 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	21.5
FEB	---	AUG	0
MAR	239	SEP	0
APR	5 740	OCT	0
MAY	164	NOV	---
JUN	74.7	DEC	---

TOTAL DISCHARGE, 6 220 dam³

BURNT LAKE DRAIN NO. 1 NEAR DEERHORN - STATION NO. 05LN002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.0188 B	0.430E	0.111	---	---	---	---	---	---	1
2	---	---	0 B	0.0308 B	0.376A	0.109	---	---	---	---	---	---	2
3	---	---	0 B	0.570B B	0.360E	0.116	---	---	---	---	---	---	3
4	---	---	0 B	1.12 B	0.314A	0.119	---	---	---	---	---	---	4
5	---	---	0 B	1.86 B	0.314E	0.112	---	---	---	---	---	---	5
6	---	---	0 B	1.93 B	0.282A	0.111	---	---	---	---	---	---	6
7	---	---	0 B	1.75 B	0.280E	0.119	---	---	---	---	---	---	7
8	---	---	0 B	1.60 E	0.270E	0.110	---	---	---	---	---	---	8
9	---	---	0 B	1.40 E	0.263A	0.112	---	---	---	---	---	---	9
10	---	---	0 B	1.25 E	0.260E	0.105	---	---	---	---	---	---	10
11	---	---	0 B	1.20 E	0.257A	0.096	---	---	---	---	---	---	11
12	---	---	0 B	1.20 E	0.260E	0.088	---	---	---	---	---	---	12
13	---	---	0 B	1.19 A	0.261A	0.080	---	---	---	---	---	---	13
14	---	---	0 B	1.26 E	0.258E	0.079	---	---	---	---	---	---	14
15	---	---	0 B	1.15 E	0.257E	0.086	---	---	---	---	---	---	15
16	---	---	0 B	1.12 E	0.256A	0.088	---	---	---	---	---	---	16
17	---	---	0 B	1.20 E	0.257A	0.083	---	---	---	---	---	---	17
18	---	---	0 B	1.23 E	0.251	0.057	---	---	---	---	---	---	18
19	---	---	0 B	1.13 E	0.239	0.048	---	---	---	---	---	---	19
20	---	---	0 B	1.03 E	0.228	0.048	---	---	---	---	---	---	20
21	---	---	0 B	0.950E	0.208	0.045	---	---	---	---	---	---	21
22	---	---	0 B	0.870E	0.195	0.053	---	---	---	---	---	---	22
23	---	---	0 B	0.790E	0.185	0.058	---	---	---	---	---	---	23
24	---	---	0 B	0.740E	0.173	0.061	---	---	---	---	---	---	24
25	---	---	0 B	0.690E	0.167	0.060	---	---	---	---	---	---	25
26	---	---	0 B	0.640E	0.159	0.058	---	---	---	---	---	---	26
27	---	---	0 B	0.600E	0.161	0.055	---	---	---	---	---	---	27
28	---	---	0 B	0.640E	0.126	0.048	---	---	---	---	---	---	28
29	---		0.0118	0.535E	0.123	0.044	---	---	---	---	---	---	29
30	---		0.0138	0.535E	0.119	0.048	---	---	---	---	---	---	30
31	---		0.0169		0.115		---	---	---	---	---	---	31
TOTAL	---	---	0.040	29.938	7.361	3.349	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.001	0.998	0.238	0.078	---	---	---	---	---	---	MEAN
MAX	---	---	0.016	1.93	0.430	0.119	---	---	---	---	---	---	MAX
MIN	---	---	0	0.018	0.115	0.044	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.325
MAXIMUM DAILY, 1.938 ON APR 5
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 45 39 N
LONG 98 02 27 W
DRAINAGE AREA, 334 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	3 48	SEP	---
APR	2 990	OCT	---
MAY	836	NOV	---
JUN	203	DEC	---

TOTAL DISCHARGE, 3 430 dam³

BURNT LAKE DRAIN NO. 2 NEAR LUNDAR - STATION NO. 05LN003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.6598	0.659	0.184	0.130	0.178	0	0.904	---	---	1
2	---	---	0 B	0.7448	0.621	0.188	0.136	0.109	0	0.827	---	---	2
3	---	---	0 B	1.53 B	0.576	0.217	0.150	0.088	0	0.688	---	---	3
4	---	---	0 B	2.36 B	0.540	0.216	0.140	0.081	0	1.62	---	---	4
5	---	---	0 B	2.31 B	0.538	0.212	0.114	0.041	0	1.80	---	---	5
6	---	---	0 B	3.47 B	0.506	0.206	0.131	0.030	0	1.28	---	---	6
7	---	---	0 B	3.87 B	0.486	0.204	0.124	0.025	0	0.981	---	---	7
8	---	---	0 B	3.35 B	0.472	0.237	0.102	0.005	0	0.868	---	---	8
9	---	---	0 B	2.76	0.481	0.210	0.088	0.001	0	0.671	---	---	9
10	---	---	0 B	2.17	0.488	0.231	0.085	0.002	0	0.384	---	---	10
11	---	---	0 B	1.84	0.401	0.218	0.091	0	0	0.684	---	---	11
12	---	---	0 B	1.65	0.377	0.203	0.078	0	0	1.10	---	---	12
13	---	---	0 B	1.62	0.432	0.208	0.072	0	0	0.883	---	---	13
14	---	---	0 B	1.70	0.386	0.190	0.070	0	0	0.611	---	---	14
15	---	---	0 B	1.63	0.403	0.178	0.053	0	0	0.508	---	---	15
16	---	---	0 B	1.50	0.395	0.158	0.042	0	0	0.474	---	---	16
17	---	---	0 B	1.55	0.383	0.180	0.036	0	0	0.423	---	---	17
18	---	---	0 B	1.62	0.373	0.148	0.028	0	0	0.294	---	---	18
19	---	---	0 B	1.62	0.385	0.141	0.035	0	0	0.240	---	---	19
20	---	---	0 B	1.54	0.388	0.131	0.032	0	0	0.213	---	---	20
21	---	---	0 B	1.47	0.380	0.123	0.018	0	0.071	0.088	---	---	21
22	---	---	0 B	1.27	0.307	0.135	0.015	0	0.172	0.010	---	---	22
23	---	---	0 B	1.14	0.302	0.133	0.566	0	0.127	0.107	---	---	23
24	---	---	0 B	1.04	0.286	0.131	0.805	0	0.076	0.087	---	---	24
25	---	---	0 B	0.967	0.257	0.129	0.594	0	0.116	0.201	---	---	25
26	---	---	0 B	0.901	0.243	0.121	0.387	0	0.184	0.108	---	---	26
27	---	---	0 B	0.817	0.229	0.118	0.317	0	0.469	0.078	---	---	27
28	---	---	0.0028	0.762	0.206	0.118	0.317	0	1.10	0.092	---	---	28
29	---		0 0058	0.723	0.177	0.108	0.269	0	1.18	0.188	---	---	29
30	---		0.0359	0.688	0.180	0.128	0.258	0	0.899	0.036	---	---	30
31	---		0.2908		0.180		0.192	0		0.012	---	---	31
TOTAL	---	---	0.332	49.271	11.978	5.089	5.481	0.542	4.374	10.573	---	---	TOTAL
MEAN	---	---	0.011	1.64	0.386	0.170	0.178	0.017	0.146	0.535	---	---	MEAN
MAX	---	---	0.290	3.87	0.659	0.237	0.806	0.178	1.18	1.62	---	---	MAX
MIN	---	---	0	0.688	0.177	0.108	0.015	0	0	0.012	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.382
MAXIMUM DAILY, 3.870 ON APR 7
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
4.338 AT 18:05 CST ON APR 8

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 43 17 N
LONG 98 05 24 W
DRAINAGE AREA, 748 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	472
FEB	---	AUG	46.8
MAR	38.7	SEP	376
APR	4 260	OCT	1 430
MAY	1 630	NOV	---
JUN	440	DEC	---

TOTAL DISCHARGE, 8 090 dam³

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	9.158	8.108	7.118	6.428	69.5	108	46.3	45.5	22.9	48.6	33.6	21.18	1
2	9.148	8.068	7.088	6.408	72.6	102	44.1	44.3	23.2	47.2	32.7	20.88	2
3	9.128	8.038	7.058	6.388	78.3	95.4	43.3	43.8	23.0	45.3	30.8	20.58	3
4	9.108	7.998	7.028	6.368	85.6	89.3	41.8	42.8	23.6	43.3	31.3	20.28	4
5	9.088	7.958	6.998	6.358	87.5	85.4	39.7	41.1	24.7	42.8	32.1	20.08	5
6	9.068	7.888	6.968	6.348	87.1	82.4	39.2	40.0	24.9	43.2	33.6	19.78	6
7	9.048	7.808	6.948	6.328	88.1	77.7	39.1	38.9	24.0	43.6	34.8	19.48	7
8	9.008	7.778	6.938	6.318	92.6	74.3	38.6	37.7	23.2	43.1	34.4	19.18	8
9	8.988	7.748	6.908	6.298	86.9	72.2	37.5	37.4	23.2	41.9	32.8	18.98	9
10	8.938	7.718	6.878	6.288	108	70.0	37.0	37.3	24.7	41.4	31.8	18.68	10
11	8.898	7.688	6.848	6.248	104	67.5	36.7	35.6	27.3	41.0	30.5	18.38	11
12	8.878	7.628	6.828	6.238	109	66.4	36.5	35.4	28.7	39.8	29.88	18.18	12
13	8.868	7.598	6.818	6.228	117	71.0	36.9	34.3	30.6	39.1	29.08	17.88	13
14	8.858	7.568	6.808	6.208	115	76.9	36.3	33.7	30.3	38.8	28.38	17.58	14
15	8.848	7.538	6.788	6.188	110	78.4	39.8	33.3	29.5	38.0	27.98	17.38	15
16	8.818	7.508	6.758	6.188	108	76.5	48.0	31.1	28.1	37.7	27.38	17.08	16
17	8.798	7.448	6.738	6.148	106	74.5	58.4	29.7	28.7	36.3	26.78	16.88	17
18	8.788	7.428	6.728	6.138	109	72.7	63.2	28.8	37.6	36.8	26.28	16.58	18
19	8.768	7.408	6.708	6.128	113	69.5	66.4	30.3	51.7	37.7	25.78	16.38	19
20	8.738	7.388	6.678	6.258	116	65.9	65.8	31.0	61.1	36.7	25.38	16.18	20
21	8.708	7.358	6.648	6.288	118	63.1	63.0	31.1	63.9	36.4	24.78	15.88	21
22	8.668	7.328	6.628	6.568	116	60.7	60.5	30.4	62.5	36.0	24.38	15.58	22
23	8.608	7.298	6.608	7.448	116	58.1	59.3	29.6	60.9	35.7	23.88	15.38	23
24	8.558	7.268	6.588	9.678	113	56.4	59.1	28.1	59.9	36.1	23.48	15.18	24
25	8.518	7.238	6.578	23.9 B	109	55.1	57.8	27.2	58.1	36.0	23.08	14.98	25
26	8.438	7.208	6.558	56.6	107	52.6	55.9	26.6	55.5	35.7	22.68	14.68	26
27	8.408	7.178	6.538	66.1	106	50.5	54.2	25.9	52.8	35.4	22.38	14.48	27
28	8.368	7.148	6.508	73.1	112	50.1	53.2	25.2	51.2	36.2	22.08	14.18	28
29	8.338		6.488	71.7	117	49.8	51.7	24.4	50.8	34.8	21.78	13.98	29
30	8.258		6.478	69.8	117	48.5	48.7	23.7	50.4	34.4	21.48	13.78	30
31	8.188		6.448		113		47.0	23.1		33.9		13.58	31
TOTAL	271.73	212.11	209.44	518.46	3 220.2	2 120.8	1 503.1	1 028.4	1 158.2	1 216.1	833.8	530.8	TOTAL
MEAN	8.77	7.58	6.76	17.3	104	70.7	48.5	33.2	38.6	39.2	27.8	17.1	MEAN
MAX	9.15	8.10	7.11	73.1	118	108	66.4	45.5	63.9	48.8	34.8	21.1	MAX
MIN	8.18	7.14	6.44	6.12	69.5	48.5	36.3	23.1	22.9	33.9	21.4	13.5	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 35.1
MAXIMUM DAILY, 118 ON MAY 21
MINIMUM DAILY, 6.12B ON APR 19
MAXIMUM INSTANTANEOUS,
119 AT 01.15 CST ON MAY 22

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 27 50 N
LONG 99 05 00 W
DRAINAGE AREA, 6 650 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	22 500	JUL	130 000
FEB	18 300	AUG	88 800
MAR	18 100	SEP	100 000
APR	44 800	OCT	105 000
MAY	278 000	NOV	72 000
JUN	183 000	DEC	45 900

TOTAL DISCHARGE, 1 110 000 dam³

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	8898	7788	6788	6418	8478	886E	857	929	889	951	998	1 010B	1
2	8898	7678	6758	6408	8728	885E	858	928	891	954	1 000	1 010B	2
3	8898	7558	6738	6408	8998	875E	885	931	888	953	998	1 010B	3
4	8888	7448	6718	6398	7298	887	880	925	887	951	998	1 010B	4
5	8888	7338	6688	6398	7598	881	880	919	889	948	998	1 000B	5
6	8878	7238	6678	6388	7928	854	882	916	889	947	993	1 000B	6
7	8878	7138	6658	6378	8058	848	887	917	886	951	985	1 000B	7
8	8868	7028	6648	6378	815E	842	888	916	881	958	986	9998	8
9	8868	6928	6628	6378	821E	837	889	915	882	959	986	9988	9
10	8858	6828	6608	6368	825E	834	870	915	890	951	989	9968	10
11	8838	6748	6598	6368	827E	831	875	913	890	984	995	9948	11
12	8818	6688	6588	6368	829A	829	881	910	891	963	997	9928	12
13	8788	6588	6588	6368	829A	830	884	903	892	964	1 000	9918	13
14	8788	6508	6558	6358	830E	830	887	898	894	969	1 000	9898	14
15	8738	6428	6548	6358	831E	830	903	900	894	972	1 000	9888	15
16	8688	6378	6538	6358	833E	828	920	898	894	959	1 000	9878	16
17	8648	6328	6528	6348	834E	828	937	894	905	965	1 000	9858	17
18	8598	6278	6518	6348	834E	827	948	893	917	969	1 010A	9838	18
19	8558	6228	6508	6338	835E	828	958	902	927	970	1 010E	9828	19
20	8488	6178	6498	6338	836E	830	962	905	940	975	1 010E	9808	20
21	8258	6128	6488	6338	837E	831	968	905	947	978	1 010E	9788	21
22	8078	6078	6478	6348	838E	838	967	905	951	984	1 010E	9778	22
23	8038	6038	6468	6388	842E	834	962	905	956	987	1 020E	9758	23
24	8778	5988	6468	6388	843E	836	958	906	956	987	1 020E	9748	24
25	8638	5948	6458	6408	845E	845	955	904	959	988	1 020B	9728	25
26	8508	5918	6458	6458	848E	844	954	899	961	983	1 020B	9718	26
27	8388	5878	6448	6518	848A	843	947	898	963	982	1 010B	9698	27
28	8268	5838	6438	6638	854E	845	944	896	959	983	1 010B	9688	28
29	8148		6438	6898	852E	848	942	895	955	983	1 010B	9678	29
30	8028		6428	8188	872E	857	936	894	955	986	1 010B	9668	30
31	7918		6428		878E		933	892		987		9668	31
TOTAL	28 943	18 490	17 211	16 278	25 249	25 301	28 257	28 127	27 478	30 102	30 082	30 687	TOTAL
MEAN	934	660	555	543	814	843	912	907	916	971	1 000	887	MEAN
MAX	989	778	678	818	878	886	967	931	963	987	1 020	1 010	MAX
MIN	791	583	542	533	647	827	887	892	881	947	985	968	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 838
MAXIMUM DAILY, 1 020E ON NOV 23
MINIMUM DAILY, 533B ON APR 19

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 44 40 N
LONG 97 53 30 W
DRAINAGE AREA, 14 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 500 000	JUL	2 440 000
FEB	1 600 000	AUG	2 430 000
MAR	1 480 000	SEP	2 370 000
APR	1 410 000	OCT	2 600 000
MAY	2 180 000	NOV	2 600 000
JUN	2 190 000	DEC	2 640 000

TOTAL DISCHARGE, 25 500 000 dam³

CEDAR LAKE NEAR OLESON POINT - STATION NO. 05KL005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	255.689	255.533	254.680	253.671	---	255.146	255.485	256.098	256.082	256.086	255.907	255.872	1
2	255.692	255.499	254.643	253.650	---	255.126	255.491	256.117	256.035	256.086	255.867	255.843	2
3	255.700	255.466	254.604	253.629A	---	255.148	255.539	256.117	256.042	256.059	255.749	255.832	3
4	255.708	255.432	254.588	---	---	255.180	255.567	256.135	256.063	256.032	255.789	255.808	4
5	255.702	255.401	254.530	---	---	255.199	255.582	256.152	256.024	256.059	255.894	255.784	5
6	255.687	255.368	254.511	---	253.631A	255.224	255.585	256.131	256.075	256.067	255.898	255.762	6
7	255.673	255.335	254.509	---	253.687	255.245	255.608	256.168	256.085	256.034	255.885	255.733	7
8	255.670	255.300	254.500	---	253.768	255.294	255.587	256.186	256.099	256.037	255.930	255.705	8
9	255.673	255.272	254.465	---	253.865	255.287	255.581	256.144	256.098	255.978	255.902	255.676	9
10	255.683	255.235	254.423	---	253.975	255.288	255.631	256.182	256.122	256.043	255.855	255.650	10
11	255.671	255.194	254.378	---	254.051	255.303	255.674	256.150	256.151	256.060	255.868	255.633	11
12	255.668	255.162	254.339	---	254.113A	255.332	255.686	256.123	256.146	256.041	255.855	255.607	12
13	255.658	255.127	254.328	---	---	255.381	255.703	256.182	256.150	256.008	255.898	255.584	13
14	255.651	255.131	254.341	---	---	255.389	255.695	256.167	256.152	256.005	255.922	255.552	14
15	255.649	255.127	254.321	---	---	255.402	255.721	256.176	256.138	255.958	255.895	255.521	15
16	255.659	255.103	254.286	---	---	255.394	255.782	256.144	256.083	255.984	255.811	255.493	16
17	255.666	255.093	254.247	---	---	255.383	255.803	256.159	256.086	256.004	255.650	255.465	17
18	255.653	255.073	254.205	---	---	255.367	255.832	256.144	256.141	255.949	255.878	255.437	18
19	255.639	255.045	254.164	---	---	255.377	255.849	256.178	256.198	255.894	255.880	255.409	19
20	255.630	255.009	254.119	---	---	255.408	255.868	256.130	256.180	255.827	255.901	255.380	20
21	255.622	254.977	254.076	---	---	255.442	255.852	256.150	256.152	255.894	255.900	255.347	21
22	255.626	254.943	254.033	---	---	255.451	255.909	256.163	256.122	255.852	255.897	255.317	22
23	255.636	254.909	253.989	---	---	255.453	255.948	256.153	256.107	255.848	255.894	255.285	23
24	255.640	254.876	253.950	---	---	255.435	255.958	256.153	256.123	255.885	255.806	255.257	24
25	255.629	254.842	253.908	---	---	255.424	255.983	256.143	256.133	255.881	255.832	255.234	25
26	255.620	254.797	253.866	---	254.948A	255.424	255.974	256.142	256.123	255.871	255.880	255.206	26
27	255.599	254.752	253.826	---	254.972	255.461	256.022	256.130	256.091	255.892	255.881	255.174	27
28	255.581	254.718	253.791	---	255.018	255.471	256.045	256.115	256.139	255.900	255.874	255.140	28
29	255.583		253.755	---	255.054	255.482	256.047	256.110	256.117	255.881	255.861	255.114	29
30	255.574		253.720	---	255.088	255.506	256.080	256.090	256.094	255.895	255.859	255.081	30
31	255.562		253.693		255.125		256.092	256.072		255.896		255.048	31
MEAN	255.648	255.133	254.218	---	---	255.347	255.778	256.141	256.110	255.985	255.871	255.482	MEAN
MAX	255.708	255.533	254.680	---	---	255.506	256.092	256.182	256.188	256.086	255.930	255.852	MAX
MIN	255.562	254.718	253.693	---	---	255.125	255.485	256.072	256.024	255.827	255.749	255.048	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 256.198 ON SEP 19

MAXIMUM INSTANTANEOUS,
256.245 AT 12:44 CST ON AUG 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 19 33 N
LONG 100 16 00 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1971 ADJ.)

CHILDS LAKE NEAR BOGGY CREEK - STATION NO. 05MD008

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1.320	1.413	1.457	1.437	1.332	1.266	1.256	---	1
2	---	---	---	---	1.321	1.415	1.460	1.442	1.323	1.266	1.254	---	2
3	---	---	---	---	1.321	1.422	1.460	1.441	1.308	1.266	1.253	---	3
4	---	---	---	---	1.323	1.423	1.465	1.438	1.304	1.265	1.252	---	4
5	---	---	---	---	1.322	1.420	1.460	1.440	1.302	1.267	1.251	---	5
6	---	---	---	---	1.321	1.418	1.459	1.431	1.308	1.266	1.248	---	6
7	---	---	---	---	1.325	1.417	1.459	1.428	1.306	1.262	1.247	---	7
8	---	---	---	---	1.327	1.423	1.463	1.424	1.302	1.261	1.248	---	8
9	---	---	---	---	1.330	1.422	1.466	1.415	1.310	1.259	1.246A	---	9
10	---	---	---	---	1.335	1.423	1.478	1.412	1.313	1.273	---	---	10
11	---	---	---	---	1.335	1.425	1.476	1.408	1.312	1.262	---	---	11
12	---	---	---	---	1.343	1.429	1.472	1.401	1.308	1.260	---	---	12
13	---	---	---	---	1.363	1.438	1.473	1.399	1.304	1.279	---	---	13
14	---	---	---	---	1.383	1.445	1.470	1.391	1.300	1.280	---	---	14
15	---	---	---	---	1.385	1.442	1.472	1.385	1.295	1.277	---	---	15
16	---	---	---	---	1.384	1.440	1.479	1.378	1.290	1.274	---	---	16
17	---	---	---	---	1.384	1.437	1.475	1.380	1.280	1.269	---	---	17
18	---	---	---	---	1.388	1.433	1.473	1.377	1.277	1.267	---	---	18
19	---	---	---	---	1.373	1.441	1.472	1.368	1.273	1.265	---	---	19
20	---	---	---	---	1.378	1.438	1.469	1.381	1.272	1.263	---	---	20
21	---	---	---	---	1.391	1.435	1.466	1.354	1.270	1.264	---	---	21
22	---	---	---	---	1.395	1.437	1.462	1.349	1.266	1.264	---	---	22
23	---	---	---	---	1.402	1.441	1.460	1.346	1.260	1.263	---	---	23
24	---	---	---	---	1.405	1.441	1.459	1.344	1.258	1.263	---	---	24
25	---	---	---	---	1.403	1.441	1.456	1.349	1.257	1.261	---	---	25
26	---	---	---	---	1.408	1.459	1.454	1.346	1.257	1.259	---	---	26
27	---	---	---	---	1.410	1.457	1.449	1.344	1.255	1.260	---	---	27
28	---	---	---	---	1.411	1.454	1.445	1.344	1.255	1.257	---	---	28
29	---		---	1.314A	1.413	1.452	1.442	1.341	1.255	1.256	---	---	29
30	---		---	1.313	1.413	1.452	1.442	1.338	1.255	1.253	---	---	30
31	---		---	1.315	1.412		1.441	1.334		1.253		---	31
MEAN	---	---	---	---	1.385	1.435	1.462	1.385	1.288	1.268	---	---	MEAN
MAX	---	---	---	---	1.413	1.461	1.479	1.442	1.332	1.282	---	---	MAX
MIN	---	---	---	---	1.320	1.413	1.441	1.334	1.255	1.253	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 1.479 ON JUL 16

MAXIMUM INSTANTANEOUS,
1.483 AT 14:21 CST ON JUL 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 34 37 N
LONG 101 01 54 W

A - MANUAL GAUGE

NATURAL FLOW

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 06EA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	672	688	672	639	672	719	656	635	536	753	853	789	1
2	675	680	670	640	679	713	653	633	529	788	849	781	2
3	677	679	667	636	681	713	646	632	522	784	849	784	3
4	685	675	671	640	685	707	638	633	519	803	851	780	4
5	687	675	685	640	691	701	639	626	518	816	851	777	5
6	687	679	662	639	695	697	642	623	512	829	841	779	6
7	686	675	662	639	699	694	640	618	510	844	836	777	7
8	686	674	662	633	706	692	641	615	512	859	833	777	8
9	699	682	660	633	703	687	639	614	505	871	826	778	9
10	690	684	664	627	698	688	639	610	504	878	823	774	10
11	688	681	664	625	706	681	634	610	502	878	823	774	11
12	689	681	661	624	718	672	633	606	500	883	823	778	12
13	688	684	656	622	721	667	633	606	504	888	824	778	13
14	689	682	658	623	719	665	628	598	504	886	818	770	14
15	692	684	656	620	721	670	632	590	509	892	816	766	15
16	691	676	655	620	727	675	636	587	517	887	815	762	16
17	687	670	649	621	723	682	640	591	526	877	815	760	17
18	694	670	649	623	723	684	639	586	539	877	816	759	18
19	693	674	649	624	722	680	640	577	541	885	815	757	19
20	696	672	647	623	723	678	641	574	550	888	807	754	20
21	699	675	648	624	727	672	640	575	560	886	803	751	21
22	699	677	646	625	724	684	639	570	580	882	800	748	22
23	695	676	644	626	720	688	641	569	601	884	800	745	23
24	689	675	646	626	722	689	643	567	616	878	800	747	24
25	688	678	644	628	725	682	641	565	631	872	800	754	25
26	688	673	642	634	728	683	645	561	653	871	800	751	26
27	689	669	646	637	727	685	644	558	674	871	798	752	27
28	692	668	646	647	723	682	638	554	686	883	795	749	28
29	686		645	656	720	681	639	548	706	880	792	750	29
30	687		642	669	722	677	637	544	728	880	793	748	30
31	694		638		721		636	542		857		742	31
TOTAL	21 369	18 956	20 284	18 985	22 072	20 409	19 834	18 313	16 792	26 624	24 567	23 691	TOTAL
MEAN	689	677	654	632	712	680	640	591	560	859	819	764	MEAN
MAX	699	684	672	669	728	719	656	635	729	892	853	785	MAX
MIN	672	668	638	620	672	677	628	542	500	753	792	742	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 690
MAXIMUM DAILY, 892 ON OCT 15
MINIMUM DAILY, 500 ON SEP 12
MAXIMUM INSTANTANEOUS,
899 AT 14:30 CST ON OCT 15

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 09 00 N
LONG 100 27 30 W
DRAINAGE AREA, 228 000 km²

REGULATED SINCE 1926

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 850 000	JUL	1 710 000
FEB	1 640 000	AUG	1 580 000
MAR	1 750 000	SEP	1 450 000
APR	1 640 000	OCT	2 300 000
MAY	1 910 000	NOV	2 120 000
JUN	1 760 000	DEC	2 050 000

TOTAL DISCHARGE, 21 800 000 dam³

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 06EB004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	717	749	740	718	727	845	851	808	742	907	---	988	1
2	718	749	738	716	729	846	852	805	736	908	---	985	2
3	719	748	736	715	732	853	840	802	744	920	---	983	3
4	723	749	737	714	735	864	846	808	742	932	---	980	4
5	724	749	736	715	738	886	842	805	737	957	---	958	5
6	727	747	734	714	740	864	840	800	736	958	---	957	6
7	727	747	736	712	743	859	835	806	737	967	---	958	7
8	730	747	735	709	745	864	832	799	752	973	---	956	8
9	735	746	733	711	749	862	829	799	748	984	1 010A	953	9
10	736	747	733	710	753	862	828	794	752	993	1 020	948	10
11	737	747	733	708	762	859	824	791	758	997A	1 010	947	11
12	737	746	732	709	766	860	819	789	757	---	1 010	945	12
13	736	748	730	707	768	866	820	795	758	---	1 000	945	13
14	740	748	730	707	772	865	810	782	758	---	1 000	942	14
15	740	748	729	708	778	869	810	778	759	---	1 000	940	15
16	743	748	729	708	780	871	817	775	759	---	998	938	16
17	742	746	727	707	784	872	820	775	760	---	996	936	17
18	744	744	726	707	789	870	819	772	763	---	996	934	18
19	744	744	725	707	794	867	813	771	765	---	995	931	19
20	745	744	724	707	798	868	810	768	808	---	991	927	20
21	746	743	723	707	804	868	803	767	815	---	989	922	21
22	748	745	721	708	810	863	802	761	828	---	991	922	22
23	748	743	721	707	813	870	807	760	837	---	988	918	23
24	749	742	721	708	817	867	804	757	849	---	988	917	24
25	748	742	722	710	818	851	802	754	858	---	985	915	25
26	749	742	720	716	822	861	801	753	882	---	982	911	26
27	748	738	720	718	830	862	817	749	874	---	980	908	27
28	748	739	719	720	835	860	814	748	890	---	978	908	28
29	748		718	722	840	858	811	746	885	---	974	905	29
30	748		719	724	844	849	810	745	901	---	972	901	30
31	748		716		849		810	743		---		898	31
TOTAL	22 897	20 877	22 562	21 348	24 262	25 867	25 438	24 101	23 726	---	---	28 997	TOTAL
MEAN	739	746	728	712	783	862	821	777	791	---	---	935	MEAN
MAX	749	749	740	724	849	872	852	808	901	---	---	988	MAX
MIN	717	738	716	707	727	845	801	743	736	---	---	898	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 707 ON APR 13

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 29 37 N
LONG 100 02 55 W
DRAINAGE AREA, 242 000 km²
A - MANUAL GAUGE

REGULATED SINCE 1926

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 985 000	JUL	2 200 000
FEB	1 800 000	AUG	2 080 000
MAR	1 960 000	SEP	2 050 000
APR	1 840 000	OCT	---
MAY	2 100 000	NOV	---
JUN	2 230 000	DEC	2 510 000

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 05FB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1978	1508	1238	100 B	98.9B	---	482E	324	---	1 020	874	3138	1
2	1858	1478	1218	100 B	98.9B	---	465E	317	---	1 030	852	3088	2
3	1948	1458	1198	100 B	98.9B	---	454E	304	---	1 040	892	3058	3
4	1938	1438	1178	100 B	98.9B	---	434E	290	---	1 050	949	3028	4
5	1928	1418	1148	100 B	98.9B	---	412E	276	---	1 060	991	2988	5
6	1918	1398	1128	100 B	98.8B	---	398E	269	---	1 060	977	2938	6
7	1908	1388	1108	100 B	98.8B	---	388E	263	---	1 060	970	2908	7
8	1888	1378	1098	100 B	98.8B	---	375E	247	---	1 050	974	2878	8
9	1888	1368	1078	100 B	98.8B	---	363E	245	---	1 040	977E	2848	9
10	1868	1358	1058	100 B	98.8B	1 550A	351E	234A	---	1 030	970E	2818	10
11	1858	1348	1048	100 B	98.8B	1 440	342E	---	---	1 020	954B	2788	11
12	1848	1348	1048	100 B	98.8B	1 350	333E	---	---	1 000	904B	2748	12
13	1828	1338	1038	100 B	98.8B	1 300	321E	---	---	996	874B	2718	13
14	1818	1338	1038	100 B	98.8B	1 270	312E	---	---	981	844B	2678	14
15	1808	1328	1028	100 B	98.8B	1 240	304E	---	---	970	832B	2858	15
16	1788	1318	1028	99.8B	99.3B	1 180	298E	---	---	958	817B	2818	16
17	1778	1318	1018	99.8B	100 B	1 110	293E	---	---	930	804B	2598	17
18	1768	1318	1018	99.8B	101 B	1 060A	280A	---	---	897	793B	2568	18
19	1758	1308	1018	99.8B	102 B	984E	287	---	---	858	784B	2538	19
20	1738	1308	1018	99.8B	106 B	905E	279	---	---	822	774B	2528	20
21	1728	1298	1018	99.4B	115 B	872E	271	---	---	791	770B	2508	21
22	1718	1298	1018	99.4B	120 B	783E	263	---	---	785	762B	2478	22
23	1708	1288	1018	99.3B	124 B	738E	253	---	---	748	755B	2458	23
24	1698	1278	1018	99.3B	129 B	690E	244	---	---	736	750B	2428	24
25	1678	1278	1018	99.2B	145 B	658E	236	---	---	733	745B	2398	25
26	1658	1268	1018	99.2B	240 B	623E	237	---	---	732	738B	2388	26
27	1648	1258	1008	99.0B	377 B	593E	244	---	---	738	734B	2348	27
28	1618	1258	1008	99.0B	560 B	570E	269	---	925A	739	729B	2328	28
29	1598		1008	98.9B	638 B	541E	292	---	869	736	724B	2308	29
30	1558		1008	98.9B	1 150 B	513E	312	---	1 010	722	719B	2288	30
31	1538		1008		1 310 B		322	---		701		2268	31
TOTAL	5 511	3 748	3 285	2 990.6	7 099.8	---	10 133	---	---	26 007	13 678	8 206	TOTAL
MEAN	178	134	105	99.7	229	---	327	---	---	903	883	265	MEAN
MAX	197	150	123	100	1 310	---	482	---	---	1 060	892	313	MAX
MIN	153	125	100	98.9	98.8	---	236	---	---	701	319	226	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 98.8B ON MAY 6

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 07 15 N
LONG 94 37 30 W
DRAINAGE AREA, 287 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1934

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	476 000	JUL	875 000
FEB	324 000	AUG	---
MAR	283 000	SEP	---
APR	256 000	OCT	2 420 000
MAY	613 000	NOV	1 200 000
JUN	---	DEC	709 000

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 05FB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	127 B	94.0B	73.0B	67.0B	66.5B	---	---	---	---	---	---	---	1
2	126 B	93.2B	72.0B	67.0B	66.5B	---	---	---	---	---	---	---	2
3	126 B	92.5B	71.5B	67.0B	66.5B	---	---	---	---	---	---	---	3
4	126 B	92.0B	70.4B	67.0B	66.5B	---	---	---	---	---	---	---	4
5	126 B	92.0B	70.5B	67.0B	66.5B	---	---	---	---	---	---	---	5
6	126 B	91.9B	70.0B	67.0B	66.5B	---	---	---	---	---	---	---	6
7	125 B	91.4B	69.4B	66.8B	66.5B	---	---	---	---	---	---	---	7
8	125 B	91.7B	69.5B	66.8B	66.0B	---	---	---	---	---	---	---	8
9	125 B	91.5B	69.2B	66.7B	66.0B	---	---	---	---	---	---	---	9
10	124 B	91.3B	69.0B	66.5B	66.0B	---	---	---	---	---	---	---	10
11	124 B	91.0B	69.0B	66.0B	66.0B	---	---	---	---	---	---	---	11
12	124 B	90.8B	68.8B	65.8B	66.0B	---	---	---	---	---	---	---	12
13	124 B	90.6B	68.7B	65.8B	65.8B	---	---	---	---	---	---	---	13
14	124 B	90.5B	68.5B	65.4B	65.6B	---	---	---	---	---	---	---	14
15	124 B	90.2B	68.5B	65.2B	65.5B	340A	---	---	---	---	---	---	15
16	123 B	90.0B	68.0B	65.1B	65.5B	---	---	---	---	---	---	---	16
17	123 B	90.0B	68.0B	64.9B	65.5B	---	---	---	---	---	---	---	17
18	122 B	90.0B	67.8B	64.9B	66.0B	---	124A	---	---	---	---	---	18
19	121 B	89.5B	67.6B	65.2B	66.2B	---	---	---	---	---	---	---	19
20	119 B	89.0B	67.5B	66.0B	67.5B	---	---	---	---	---	---	---	20
21	116 B	87.8B	67.5B	66.0B	70.5B	---	---	---	---	---	---	---	21
22	114 B	86.5B	67.5B	66.0B	78.9B	---	---	---	---	---	---	---	22
23	111 B	84.9B	67.2B	66.0B	96.5B	---	---	---	---	---	---	---	23
24	108 B	82.2B	67.2B	66.0B	112 B	---	---	---	---	---	---	---	24
25	107 B	80.0B	67.1B	66.0B	127 B	---	---	---	---	---	---	---	25
26	104 B	77.0B	67.1B	66.2B	143 B	---	---	---	---	---	---	---	26
27	102 B	76.7B	67.1B	66.4B	160 B	---	---	---	---	---	---	---	27
28	99.5B	75.6B	67.1B	66.5B	176 B	---	---	---	557A	---	---	---	28
29	96.0B		67.1B	66.5B	191 B	---	---	---	---	---	---	---	29
30	96.5B		67.1B	66.5B	209 B	---	---	---	---	---	---	---	30
31	96.0B		67.0B		224 B		---	---	---	---	---	---	31
TOTAL	3 836.0	2 474.2	2 126.7	1 985.0	2 911.0	---	---	---	---	---	---	---	TOTAL
MEAN	117	88.4	68.8	66.2	93.9	---	---	---	---	---	---	---	MEAN
MAX	127	94.0	73.0	67.0	224	---	---	---	---	---	---	---	MAX
MIN	96.0	75.6	67.0	64.9	65.5	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 15 00 N
LONG 96 47 45 W
DRAINAGE AREA, 271 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1938

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	314 000	JUL	---
FEB	214 000	AUG	---
MAR	184 000	SEP	---
APR	172 000	OCT	---
MAY	252 000	NOV	---
JUN	---	DEC	---

CLEARWATER LAKE AT GUY HILL - STATION NO. 05KK009

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	259.927	259.942	259.954	259.973	259.991	260.129	260.216	260.353	260.275	260.212	260.142	260.134	1
2	259.930	259.942	259.954	259.972	259.994	260.132	260.219	260.352	260.271	260.211	260.133	260.130	2
3	259.933	259.943	259.955	259.972	260.000	260.138	260.227	260.351	260.268	260.210	260.128	260.131	3
4	259.935	259.945	259.955	259.972	260.002	260.138	260.229	260.352	260.265	260.204	260.132	260.131	4
5	259.935	259.945	259.955	259.973	260.004	260.139	260.220	260.349	260.268	260.205	260.133	260.120	5
6	259.933	259.945	259.957	259.975	260.004	260.139	260.219	260.344	260.273	260.203	260.132	260.132	6
7	259.935	259.947	259.963	259.975	260.003	260.141	260.223	260.347	260.265	260.194	260.150	260.131	7
8	259.934	259.950	259.965	259.972	260.004	260.145	260.220	260.341	260.261	260.189	260.149	260.130	8
9	259.931	259.950	259.966	259.975	260.005	260.148	260.219	260.331	260.259	260.184	260.143	260.130	9
10	259.933	259.950	259.967	259.976	260.013	260.147	260.224	260.333	260.299	260.187	260.148	260.132	10
11	259.933	259.948	259.963	259.979	260.043	260.153	260.258	260.326	260.287	260.186	260.144	260.135	11
12	259.934	259.950	259.962	259.980	260.045	260.162	260.259	260.320	260.281	260.187	260.137	260.136	12
13	259.936	259.950	259.963	259.979	260.047	260.183	260.264	260.321	260.274	260.184	260.143	260.136	13
14	259.934	259.948	259.963	259.977	260.048	260.189	260.264	260.314	260.274	260.182	260.145	260.136	14
15	259.936	259.946	259.963	259.979	260.048	260.187	260.291	260.311	260.266	260.173	260.136	260.136	15
16	259.934	259.947	259.965	259.980	260.052	260.188	260.321	260.302	260.258	260.177	260.134	260.135	16
17	259.934	259.947	259.964	259.978	260.056	260.187	260.325	260.300	260.261	260.171	260.136	260.135	17
18	259.935	259.948	259.962	259.978	260.059	260.188	260.329	260.302	260.270	260.162	260.140	260.134	18
19	259.936	259.950	259.963	259.977	260.063	260.186	260.332	260.310	260.274	260.152	260.148	260.135	19
20	259.936	259.950	259.964	259.977	260.068	260.193	260.336	260.292	260.272	260.147	260.153	260.136	20
21	259.936	259.952	259.965	259.975	260.084	260.196	260.339	260.290	260.267	260.150	260.154	260.137	21
22	259.936	259.954	259.966	259.976	260.090	260.197	260.345	260.282	260.249	260.151	260.148	260.138	22
23	259.938	259.953	259.968	259.976	260.092	260.199	260.346	260.270	260.241	260.152	260.145	260.138	23
24	259.938	259.955	259.970	259.977	260.095	260.201	260.347	260.279	260.240	260.149	260.148	260.139	24
25	259.939	259.955	259.975	259.978	260.103	260.208	260.346	260.278	260.238	260.148	260.146	260.137	25
26	259.939	259.955	259.972	259.983	260.108	260.218	260.350	260.280	260.238	260.148	260.141	260.138	26
27	259.941	259.953	259.973	259.984	260.112	260.214	260.351	260.280	260.236	260.148	260.136	260.138	27
28	259.943	259.954	259.975	259.988	260.113	260.213	260.352	260.278	260.238	260.147	260.138	260.139	28
29	259.943		259.974	259.991	260.117	260.216	260.355	260.280	260.222	260.144	260.142	260.138	29
30	259.944		259.975	259.992	260.120	260.217	260.354	260.279	260.217	260.143	260.135	260.139	30
31	259.943		259.973		260.123		260.354	260.275		260.140		260.141	31
MEAN	259.936	259.948	259.965	259.978	260.055	260.176	260.291	260.311	260.280	260.173	260.141	260.135	MEAN
MAX	259.944	259.955	259.975	259.992	260.123	260.218	260.355	260.353	260.299	260.212	260.154	260.141	MAX
MIN	259.927	259.942	259.954	259.972	259.991	260.129	260.218	260.275	260.217	260.140	260.128	260.130	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MEAN, 260.115
MAXIMUM DAILY, 260.355 ON JUL 29
MINIMUM DAILY, 259.927 ON JAN 1
MAXIMUM INSTANTANEOUS,
260.356 AT 06:42 CST ON JUL 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 58 55 N
LONG 101 05 00 W

NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1974 ADJ.)

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1128	1068	102 B	98.5B	98.6B	185	214	212	239	285	242	1808	1
2	1128	1068	101 B	98.4B	98.6B	185	213	214	237	284	241	1788	2
3	1128	1058	101 B	98.4B	96.6B	186	215	215	244	283	239	1768	3
4	1118	1058	101 B	98.3B	96.6B	185	214	217	247	283	238	1768	4
5	1118	1058	101 B	98.3B	96.5B	167	212	218	255	282	239	1748	5
6	1118	1058	101 B	98.2B	96.5B	167	212	217	259	282	240	1738	6
7	1118	1058	101 B	98.2B	96.5B	168	213	218	262	280	238	1728	7
8	1118	1058	100 B	98.1B	96.6B	166	213	219	265	259	237	1718	8
9	1108	1048	100 B	98.0B	97.1B	165	210	219	268	257	237	1708	9
10	1108	1048	100 B	97.9B	97.5B	166	209	217	267	256	2388	1698	10
11	1108	1048	100 B	97.8B	97.9B	167	208	217	265	255	2338	1688	11
12	1108	1048	100 B	97.7B	99.1B	167	208	217	267	255	2318	1678	12
13	1108	1048	100 B	97.8B	101 B	173	207	217	266	253	2288	1668	13
14	1098	1048	99.9B	97.5B	104 B	182	206	216	264	252	2258	1658	14
15	1098	1048	99.8B	97.5B	110 B	190	206	216	260	252	2238	1648	15
16	1098	1038	99.7B	97.5B	114 B	197	207	215	257	252	2198	1648	16
17	1098	1038	99.6B	97.5B	117 B	203	207	216	256	251	2178	1638	17
18	1088	1038	99.6B	97.4B	120 B	209	209	216	260	250	2138	1628	18
19	1088	1038	99.4B	97.4B	123 B	213	209	223	262	249	2108	1628	19
20	1088	1038	99.3B	97.4B	126 B	216	208	224	264	249	2078	1618	20
21	1088	1038	99.3B	97.2B	130 B	218	208	225	265	248	2038	1618	21
22	1088	1028	99.2B	97.1B	133 B	218	210	226	266	247	2008	1608	22
23	1078	1028	99.2B	97.1B	136 B	219	211	230	267	248	1978	1608	23
24	1078	1028	99.1B	97.0B	138 B	219	210	232	268	248	1948	1588	24
25	1078	1028	99.0B	97.0B	143 B	218	210	232	268	248	1928	1588	25
26	1078	1028	98.8B	96.8B	147	216	211	235	268	248	1898	1578	26
27	1078	1028	98.7B	96.8B	152	215	210	236	270	246	1878	1578	27
28	1078	1028	98.6B	96.7B	156	216	209	233	269	245	1858	1568	28
29	1068		98.5B	96.7B	160	215	210	234	267	245	1838	1568	29
30	1068		98.5B	96.6B	162	215	211	234	265	244	1828	1558	30
31	1068		98.5B		164		211	236		243		1548	31
TOTAL	3 377	2 902	3 082.5	2 926.6	3 700.1	5 746	6 513	6 900	7 837	7 633	6 508	5 113	TOTAL
MEAN	109	104	99.6	97.6	119	192	210	223	261	253	217	165	MEAN
MAX	112	106	102	98.5	164	219	219	236	270	286	242	180	MAX
MIN	106	102	98.6	96.6	98.5	165	206	212	237	243	182	154	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE YEAR 1983

MEAN, 171
MAXIMUM DAILY, 270 ON SEP 27
MINIMUM DAILY, 96.5B ON MAY 5
MAXIMUM INSTANTANEOUS,
270 AT 19:05 CST ON SEP 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 00 00 N
LONG 101 23 45 W
DRAINAGE AREA, 25 000 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	252 000	JUL	583 000
FEB	251 000	AUG	596 000
MAR	287 000	SEP	677 000
APR	253 000	OCT	677 000
MAY	320 000	NOV	552 000
JUN	498 000	DEC	442 000

TOTAL DISCHARGE, 5 400 000 dam³

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0 B	0.684	0.017	0	0.012	0	0	---	---	1
2	---	---	0 B	0 B	0.530	0.015	0	0.010	0	0	---	---	2
3	---	---	0 B	0 B	0.414	0.013	0.002	0.010	0	0	---	---	3
4	---	---	0 B	0 B	0.315	0.010	0.003	0.008	0	0	---	---	4
5	---	---	0 B	0 B	0.244	0.013	0.002	0.006	0	0	---	---	5
6	---	---	0 B	0 B	0.184	0.030	0.001	0.005	0	0	---	---	6
7	---	---	0 B	0.0328	0.141	0.015	0	0.004	0	0	---	---	7
8	---	---	0 B	0.0648	0.113	0.014	0	0.002	0	0	---	---	8
9	---	---	0 B	0.0968	0.092	0.009	0	0.001	0	0	---	---	9
10	---	---	0 B	0.1288	0.073	0.011	0.057	0	0	0	---	---	10
11	---	---	0 B	0.1158	0.057	0.015	0.010	0	0	0	---	---	11
12	---	---	0 B	0.1028	0.059	0.016	0.007	0	0	0	---	---	12
13	---	---	0 B	0.0258	0.059	0.071	0.315	0	0	0	---	---	13
14	---	---	0 B	0.0128	0.059	0.098	1.13	0	0	0	---	---	14
15	---	---	0 B	0.0208	0.059	0.033	1.10	0	0	0	---	---	15
16	---	---	0 B	0.0638	0.057	0.015	0.881	0	0	0	---	---	16
17	---	---	0 B	0.1088	0.052	0.010	0.681	0	0	0	---	---	17
18	---	---	0 B	0.1508	0.053	0.008	0.528	0	0	0	---	---	18
19	---	---	0 B	0.2078	0.080	0.007	0.417	0	0	0	---	---	19
20	---	---	0 B	1.73 B	0.080	0.006	0.310	0	0	0	---	---	20
21	---	---	0 B	3.18	0.093	0.006	0.318	0	0	0	---	---	21
22	---	---	0 B	3.65	0.088	0.006	0.230	0	0	0	---	---	22
23	---	---	0 B	3.26	0.092	0.006	0.183	0	0	0	---	---	23
24	---	---	0 B	2.88	0.084	0.006	0.147	0	0	0	---	---	24
25	---	---	0 B	2.39	0.086	0.006	0.089	0	0	0	---	---	25
26	---	---	0 B	1.77	0.055	0.006	0.096	0	0	0	---	---	26
27	---	---	0 B	1.28	0.045	0.003	0.071	0	0	0	---	---	27
28	---	---	0 B	1.10	0.037	0.002	0.054	0	0	0	---	---	28
29	---		0 B	0.937	0.032	0.001	0.029	0	0	0	---	---	29
30	---		0 B	0.829	0.025	0.001	0.030	0	0	0	---	---	30
31	---		0 B		0.021		0.020	0		0		---	31
TOTAL	---	---	0	24.116	4.042	0.488	6.721	0.058	0	0	---	---	TOTAL
MEAN	---	---	0	0.804	0.130	0.016	0.217	0.002	0	0	---	---	MEAN
MAX	---	---	0	3.65	0.684	0.098	1.13	0.012	0	0	---	---	MAX
MIN	---	---	0	0	0.021	0.001	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.145
MAXIMUM DAILY, 3.65 ON APR 22
MINIMUM DAILY, 0 B ON MAR 1
MAXIMUM INSTANTANEOUS,
4.20 AT 20:54 CST ON APR 21

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 47 30 N
LONG 101 17 55 W
DRAINAGE AREA, 88.1 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	581
FEB	---	AUG	5.01
MAR	0	SEP	0
APR	2 080	OCT	0
MAY	349	NOV	---
JUN	40 4	DEC	---

TOTAL DISCHARGE, 3 080 dam³

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	19.1 B	0.847	0.218	0.289	0	0	0	---	---	1
2	---	---	0 B	15.9 B	0.754	0.178	0.267	0	0	0	---	---	2
3	---	---	0 B	17.0 B	0.670	0.257	0.314	0	0	0	---	---	3
4	---	---	0 B	19.8 B	0.607	0.260	0.410	0	0	0	---	---	4
5	---	---	0.0108	23.6 B	0.606	0.413	0.467	0	0	0	---	---	5
6	---	---	0.0408	27.9 B	0.575	0.283	0.859	0	0	0	---	---	6
7	---	---	0.0798	22.2 B	0.553	0.253	1.09	0	0	0	---	---	7
8	---	---	0.1758	15.0 B	0.542	0.348	0.919	0	0	0	---	---	8
9	---	---	0.3408	13.2 B	0.515	0.332	0.689	0	0	0	---	---	9
10	---	---	0.6858	10.8	0.492	0.262	0.533	0	0	0	---	---	10
11	---	---	0.6758	8.82	0.480	0.198	0.404	0	0	0	---	---	11
12	---	---	0.9168	7.39	0.452	0.138	0.336	0	0	0	---	---	12
13	---	---	0.9228	4.81	0.473	0.123	0.319	0	0	0	---	---	13
14	---	---	0.9088	4.60 B	0.547	0.089	0.342	0	0	0	---	---	14
15	---	---	0.8378	4.00 B	0.598	0.071	0.388	0	0	0	---	---	15
16	---	---	0.7498	4.50 B	0.530	0.051	0.347	0	0	0	---	---	16
17	---	---	0.4008	4.43	0.478	0.031	0.158	0	0	0	---	---	17
18	---	---	0.1808	3.51	0.429	0.005	0.094	0	0	0	---	---	18
19	---	---	0.1258	2.75	0.389	0.003	0.142	0	0	0	---	---	19
20	---	---	0.0728	2.30	0.366	0.286	0.199	0	0	0	---	---	20
21	---	---	0.0668	2.03	0.354	0.505	0.224	0	0	0	---	---	21
22	---	---	0.0528	1.82	0.337	0.418	0.212	0	0	0	---	---	22
23	---	---	0.0328	1.59	0.318	0.400	0.123	0	0	0	---	---	23
24	---	---	0.0188	1.36	0.310	0.303	0.006	0	0	0	---	---	24
25	---	---	0.0088	1.10	0.280	0.267	0	0	0	0	---	---	25
26	---	---	0.0138	1.00	0.256	0.312	0	0	0	0	---	---	26
27	---	---	0.0058	0.899	0.251	0.360	0	0	0	0	---	---	27
28	---	---	0.0108	1.03	0.259	0.353	0	0	0	0	---	---	28
29	---		0.0268	1.04	0.232	0.274	0	0	0	0	---	---	29
30	---		0.3728	0.949	0.222	0.296	0	0	0	0	---	---	30
31	---		11.6 B		0.213		0	0		0		---	31
TOTAL	---	---	19.399	244.527	13.945	7.293	9.131	0	0	0	---	---	TOTAL
MEAN	---	---	0.626	8.15	0.450	0.243	0.295	0	0	0	---	---	MEAN
MAX	---	---	11.6	27.9	0.847	0.505	1.09	0	0	0	---	---	MAX
MIN	---	---	0	0.949	0.213	0.003	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.20
MAXIMUM DAILY, 27.9 B ON APR 6
MINIMUM DAILY, 0 B ON MAR 1
MAXIMUM INSTANTANEOUS,
28.8 B AT 11:10 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 12 N
LONG 95 46 23 W
DRAINAGE AREA, 513 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	789
FEB	---	AUG	0
MAR	1 680	SEP	0
APR	21 100	OCT	0
MAY	1 200	NOV	---
JUN	830	DEC	---

TOTAL DISCHARGE, 25 400 dam³

COOKS CREEK NEAR EAST SELKIRK - STATION NO 05OJ002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	29.8 B	0.658	0.082	0.135	0	0	0	---	---	1
2	---	---	0 B	26.1 B	0.573	0.065	0.132	0	0	0	---	---	2
3	---	---	0 B	25.8 B	0.509	0.069	0.185	0	0	0	---	---	3
4	---	---	0 B	27.4 B	0.460	0.106	0.528	0	0	0	---	---	4
5	---	---	0.0118	29.7 B	0.413	0.148	1.00	0	0	0	---	---	5
6	---	---	0.0608	34.6 B	0.400	0.250	1.06	0	0	0	---	---	6
7	---	---	0.1208	36.6 B	0.366	0.291	1.09	0	0	0	---	---	7
8	---	---	0.2738	27.1	0.320	0.114	1.20	0	0	0	---	---	8
9	---	---	0.5208	19.1	0.305	0.073	0.904	0	0	0	---	---	9
10	---	---	1.00 B	14.4	0.298	0.180	0.620	0	0	0	---	---	10
11	---	---	1.32 B	11.3	0.285	0.124	0.403	0	0	0	---	---	11
12	---	---	1.34 B	9.25	0.230	0.070	0.243	0	0	0	---	---	12
13	---	---	1.36 B	7.14	0.212	0.051	0.134	0	0	0	---	---	13
14	---	--	1.39 B	4.53	0.262	0.038	0.050	0	0	0	---	---	14
15	---	---	1.07 B	4.44	0.418	0.009	0.002	0	0	0	---	---	15
16	---	---	0.8608	4.74	0.571	0	0	0	0	0	---	---	16
17	---	---	0.5248	4.44	0.519	0	0	0	0	0	---	---	17
18	---	---	0.2788	3.91	0.433	0	0	0	0	0	---	---	18
19	---	---	0.2228	3.21	0.358	0	0	0	0	0	---	---	19
20	---	---	0.1278	2.82	0.308	0	0	0	0	0	---	---	20
21	---	---	0.0718	2.25	0.270	0	0	0	0	0	---	---	21
22	---	---	0.0658	1.97	0.234	0.271	0	0	0	0	---	---	22
23	---	---	0.0538	1.88	0.200	0.504	0	0	0	0	---	---	23
24	---	---	0.0278	1.62	0.168	0.350	0	0	0	0	---	---	24
25	---	---	0.0028	1.39	0.162	0.259	0	0	0	0	---	---	25
26	---	---	0.0198	1.25	0.125	0.129	0	0	0	0	--	---	26
27	---	---	0.0068	1.10	0.116	0.027	0	0	0	0	---	---	27
28	---	---	0.0558	0.861	0.118	0.070	0	0	0	0	---	---	28
29	---		0.2188	0.671	0.138	0.118	0	0	0	0	---	---	29
30	---		1.71 B	0.747	0.138	0.169	0	0	0	0	---	---	30
31	---		11.6 B		0.130		0	0		0		---	31
TOTAL	---	---	24.301	340.049	8.695	3.556	7.566	0	0	0	---	---	TOTAL
MEAN	---	---	0.784	11.3	0.313	0.119	0.247	0	0	0	---	---	MEAN
MAX	---	---	11.6	36.6	0.658	0.504	1.20	0	0	0	---	---	MAX
MIN	---	---	0	0.747	0.114	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.57
MAXIMUM DAILY, 36.6B ON APR 7
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
40.0B AT 19:33 CST ON APR 6

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 08 25 N
LONG 96 49 46 W
DRAINAGE AREA, 697 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	662
FEB	---	AUG	0
MAR	2 100	SEP	0
APR	29 400	OCT	0
MAY	838	NOV	---
JUN	307	DEC	---

TOTAL DISCHARGE, 33 300 dam³

COOKS CREEK NEAR GLASS - STATION NO 05OJ007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.33 B	0.552	0.067	0.015A	0.001	0	0.001	---	---	1
2	---	---	0 B	4.69 B	0.530	0.075	0.007	0.001A	0	0.001	---	---	2
3	---	---	0 B	4.67 B	0.511	0.183	0.010	0.001E	0	0.001	---	---	3
4	---	---	0 B	4.22 B	0.492	0.354A	0.050	0 A	0	0.001	---	---	4
5	---	---	0.0088	4.71 B	0.446	0.244A	0.538	0	0	0	---	---	5
6	---	---	0.0198	5.18 B	0.426	0.112	0.883	0	0	0	---	---	6
7	---	---	0.0358	3.21 B	0.390	0.035	0.737	0	0	0	---	---	7
8	---	---	0.0858	2.39 B	0.336	0.011	0.538	0	0	0	---	---	8
9	---	---	0.1258	1.79 B	0.288	0.005	0.358	0	0	0	---	---	9
10	---	---	0.2308	1.58 B	0.258	0.001	0.217A	0	0	0	---	---	10
11	---	---	0.4508	1.43 B	0.274	0	0.161A	0	0	0	---	---	11
12	---	---	0.8058	1.51 B	0.336	0.005	0.103	0	0	0	---	---	12
13	---	---	0.5808	2.17 B	0.388	0.048	0.048A	0	0	0	---	---	13
14	---	---	0.3948	2.62 B	0.453	0.105	0.029A	0	0	0	---	---	14
15	---	---	0.2658	2.56 B	0.374	0.078	0.005	0	0	0	---	---	15
16	---	---	0.1808	1.77 B	0.329	0.036	0.001	0	0	0	---	---	16
17	---	---	0.1208	1.35 B	0.302	0.018A	0	0	0	0	---	---	17
18	---	---	0.0678	1.20	0.288	0.016A	0	0	0	0	---	---	18
19	---	---	0.0378	1.10	0.263	0.182	0	0	0	0	---	---	19
20	---	---	0.0218	1.04	0.241	0.411	0	0	0	0	---	---	20
21	---	---	0.0138	1.01	0.220	0.352A	0 A	0	0	0	---	---	21
22	---	---	0.0118	0.959	0.206	0.339E	0 E	0	0	0	---	---	22
23	---	---	0.0078	0.901	0.189	0.327E	0 E	0	0	0	---	---	23
24	---	---	0.0048	0.845	0.171	0.315E	0 A	0	0	0.001	---	---	24
25	---	---	0.0028	0.801	0.148	0.303E	0	0	0	0.001	---	---	25
26	---	---	0.0028	0.767	0.117	0.291E	0	0	0	0.001	---	---	26
27	---	---	0.0018	0.721	0.102	0.280E	0	0	0	0	---	---	27
28	---	---	0.0098	0.673	0.094	0.212	0	0	0	0 A	---	---	28
29	---		0.0738	0.619	0.084	0.133	0 A	0	0	0 E	---	---	29
30	---		0.2948	0.583	0.076	0.072A	0.001E	0	0	0 E	---	---	30
31	---		5.25 B		0.074		0.002A	0		0 E		---	31
TOTAL	---	---	9.084	52.403	8.958	4.580	3.743	0.003	0	0.007	---	---	TOTAL
MEAN	---	---	0.292	2.08	0.289	0.153	0.121	0	0	0	---	---	MEAN
MAX	---	---	5.25	5.33	0.552	0.411	0.883	0.001	0	0.001	---	---	MAX
MIN	---	---	0	0.583	0.074	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.362
MAXIMUM DAILY, 5.33B ON APR 1
MINIMUM DAILY, 0B ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 10 N
LONG 96 44 28 W
DRAINAGE AREA, 183 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	323
FEB	---	AUG	0.26
MAR	783	SEP	0
APR	5 390	OCT	0.60
MAY	774	NOV	---
JUN	396	DEC	---

TOTAL DISCHARGE, 7 670 dam³

CORMORANT LAKE AT CORMORANT - STATION NO. 05KK002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	255.964	255.995	255.974	255.958	255.969	256.157	256.269	256.588	256.623	256.698	256.705	256.751	1
2	255.964	255.989	255.973	255.956	255.970	256.150	256.291	256.601	256.619	256.697	256.691	256.748	2
3	255.969	255.988	255.970	255.958	255.976	256.162	256.295	256.601	256.645	256.689	256.691	256.748	3
4	255.978	255.989	255.972	255.957	255.990	256.177	256.296	256.617	256.614	256.692	256.704	256.745	4
5	255.977	255.985	255.970	255.957	255.987	256.183	256.301	256.618	256.606	256.715	256.732	256.744	5
6	255.981	255.987	255.969	255.955	255.998	256.184	256.302	256.620	256.611	256.695	256.715	256.742	6
7	255.978	255.989	255.975	255.957	255.999	256.184	256.295	256.627	256.613	256.694	256.720	256.745	7
8	255.980	255.990	255.972	255.958	255.997	256.195	256.298	256.627	256.615	256.699	256.728	256.742	8
9	255.983	255.995	255.968	255.960	256.001	256.194	256.302	256.636	256.596	256.696	256.728	256.741	9
10	255.978	255.995	255.964	255.962	256.017	256.204	256.308	256.638	256.646	256.706	256.732	256.738	10
11	255.971	255.991	255.969	255.962	256.042	256.211	256.374	256.634	256.662	256.712	256.733	256.744	11
12	255.976	255.989	255.959	255.963	256.048	256.240	256.393	256.636	256.648	256.708	256.734	256.746	12
13	255.975	255.991	255.959	255.958	256.048	256.243	256.388	256.637	256.646	256.705	256.746	256.747	13
14	255.978	255.990	255.958	255.971	256.051	256.247	256.395	256.636	256.645	256.706	256.735	256.748	14
15	255.981	255.989	255.958	255.969	256.048	256.254	256.425	256.633	256.640	256.706	256.739	256.743	15
16	255.983	255.987	255.956	255.958	256.060	256.258	256.451	256.628	256.628	256.731	256.726	256.736	16
17	255.973	255.978	255.955	255.962	256.069	256.262	256.482	256.632	256.651	256.718	256.730	256.737	17
18	255.978	255.979	255.953	255.962	256.076	256.259	256.463	256.635	256.691	256.704	256.737	256.720	18
19	255.980	255.983	255.954	255.967	256.080	256.266	256.473	256.636	256.678	256.701	256.747	256.724	19
20	255.984	255.981	255.952	255.962	256.084	256.267	256.483	256.606	256.689	256.704	256.742	256.734	20
21	255.987	255.986	255.953	255.960	256.103	256.269	256.486	256.626	256.685	256.711	256.742	256.730	21
22	255.981	255.990	255.953	255.969	256.109	256.265	256.507	256.618	256.668	256.701	256.742	256.728	22
23	255.988	255.989	255.952	255.966	256.113	256.271	256.520	256.618	256.667	256.718	256.745	256.735	23
24	255.983	255.985	255.957	255.972	256.116	256.270	256.524	256.618	256.679	256.718	256.761	256.734	24
25	255.974	255.982	255.958	255.963	256.112	256.262	256.537	256.625	256.677	256.712	256.754	256.733	25
26	255.976	255.982	255.957	255.967	256.133	256.279	256.550	256.627	256.680	256.710	256.753	256.734	26
27	255.977	255.975	255.959	255.965	256.140	256.269	256.563	256.626	256.694	256.717	256.748	256.730	27
28	255.981	255.974	255.958	255.969	256.142	256.291	256.556	256.623	256.711	256.711	256.755	256.727	28
29	255.980		255.958	255.956	256.147	256.297	256.550	256.625	256.690	256.707	256.754	256.723	29
30	255.984		255.957	255.963	256.156	256.293	256.565	256.632	256.695	256.701	256.755	256.722	30
31	255.989		255.981		256.162		256.581	256.628		256.707		256.717	31
MEAN	255.980	255.987	255.961	255.980	256.083	256.236	256.428	256.624	256.652	256.706	256.734	256.737	MEAN
MAX	255.991	255.995	255.975	255.975	256.162	256.297	256.581	256.638	256.711	256.731	256.761	256.751	MAX
MIN	255.964	255.974	255.952	255.945	255.969	256.150	256.269	256.588	256.596	256.689	256.691	256.717	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MEAN, 256.341
MAXIMUM DAILY, 256.761 ON NOV 24
MINIMUM DAILY, 255.945 ON APR 27
MAXIMUM INSTANTANEOUS,
256.786 AT 22:51 CST ON OCT 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 13 00 N
LONG 100 36 00 W

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1929 ADJ.)

CROSS LAKE AT CROSS LAKE - STATION NO 05UD001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	207.551	207.537	207.422	207.335	207.136	206.740	206.451	206.745	206.880	206.880	207.515	207.489	1
2	207.554	207.531	207.416	207.333	207.127	206.742	206.400	206.739	206.875	206.891	207.547	207.432	2
3	207.562	207.517	207.411	207.331	207.113	206.726	206.383	206.762	206.830	206.728	207.516	207.422	3
4	207.580	207.514	207.405	207.328	207.094	206.668	206.407	206.738	206.841	206.710	207.498	207.423	4
5	207.587	207.509	207.395	207.325	207.073	206.606	206.360	206.731	206.887	206.891	207.502	207.452	5
6	207.593	207.507	207.396	207.321	207.051	206.596	206.339	206.722	206.878	206.881	207.570	207.472	6
7	207.596	207.509	207.405	207.318	207.038	206.572	206.374	206.707	206.847	206.707	207.546	207.486	7
8	207.597	207.512	207.410	207.326	207.023	206.544	206.425	206.705	206.807	206.748	207.545	207.501	8
9	207.595	207.514	207.407	207.329	207.011	206.516	206.450	206.699	206.828	206.795	207.504	207.518	9
10	207.581	207.518	207.403	207.332	207.036	206.504	206.480	206.695	206.894	206.818	207.597	207.534	10
11	207.575	207.518	207.393	207.343	207.055	206.502	206.572	206.695	206.885	206.882	207.589	207.559	11
12	207.570	207.516	207.385	207.349	207.018	206.492	206.614	206.685	206.836	206.889	207.582	207.576	12
13	207.570	207.508	207.392	207.354	206.997	206.500	206.622	206.663	206.832	206.871	207.583	207.591	13
14	207.575	207.503	207.392	207.357	206.976	206.493	206.636	206.661	206.838	206.915	207.607	207.599	14
15	207.584	207.496	207.388	207.358	206.934	206.511	206.707	206.675	206.850	206.979	207.604	207.602	15
16	207.587	207.487	207.385	207.367	206.905	206.487	206.751	206.680	206.846	207.007	207.597	207.614	16
17	207.592	207.483	207.379	207.371	206.885	206.462	206.780	206.686	206.880	207.013	207.604	207.626	17
18	207.600	207.479	207.374	207.364	206.907	206.439	206.785	206.678	206.708	207.074	207.614	207.636	18
19	207.602	207.478	207.368	207.348	206.906	206.460	206.786	206.699	206.702	207.082	207.636	207.645	19
20	207.599	207.476	207.362	207.323	206.887	206.476	206.804	206.687	206.722	207.117	207.661	207.669	20
21	207.593	207.473	207.354	207.300	206.887	206.473	206.818	206.686	206.706	207.152	207.701	207.683	21
22	207.585	207.471	207.348	207.274	206.882	206.479	206.818	206.646	206.675	207.252	207.733	207.691	22
23	207.579	207.466	207.344	207.260	206.883	206.486	206.820	206.643	206.629	207.304	207.741	207.699	23
24	207.571	207.459	207.339	207.233	206.871A	206.484	206.811	206.648	206.627	207.348	207.706	207.705	24
25	207.562	207.446	207.342	207.223	206.868A	206.478	206.808	206.655	206.650	207.383	207.680	207.710	25
26	207.555	207.439	207.339	207.219	206.849	206.514	206.805	206.681	206.673	207.422	207.644	207.715	26
27	207.559	207.433	207.340	207.212	206.835	206.529	206.777	206.667	206.682	207.433	207.595	207.720	27
28	207.558	207.429	207.339	207.189	206.819	206.600	206.751	206.663	206.680	207.467	207.545	207.727	28
29	207.552		207.336	207.170	206.808	206.398	206.765	206.685	206.670	207.480	207.513	207.735	29
30	207.543		207.335	207.153	206.784	206.414	206.777	206.671	206.681	207.490	207.485	207.747	30
31	207.545		207.334		206.754		206.754	206.687		207.494		207.756	31
MEAN	207.576	207.490	207.376	207.301	206.949	206.518	206.633	206.687	206.883	207.041	207.603	207.604	MEAN
MAX	207.602	207.537	207.422	207.371	207.136	206.742	206.820	206.752	206.722	207.494	207.741	207.756	MAX
MIN	207.543	207.429	207.334	207.153	206.754	206.388	206.339	206.643	206.607	206.681	207.485	207.422	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MEAN, 207.118
MAXIMUM DAILY, 207.756 ON DEC 31
MINIMUM DAILY, 206.339 ON JUL 6
MAXIMUM INSTANTANEOUS,
207.780 AT 23:59 CST ON DEC 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 37 25 N
LONG 97 47 07 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1988 ADJ.)

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05090006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.21 B	0.036	0.003	0.002	0	0	0	---	---	1
2	---	---	0 B	1.29 B	0.036	0.002	0.002	0	0	0	---	---	2
3	---	---	0 B	0.8720	0.033	0.002	0.002	0	0	0	---	---	3
4	---	---	0 B	0.9340	0.026	0.002	0.002	0	0	0	---	---	4
5	---	---	0 B	1.06 B	0.024	0.002	0.002	0	0	0	---	---	5
6	---	---	0 B	0.9370	0.017	0.002	0.001	0	0	0	---	---	6
7	---	---	0 B	0.4180	0.012	0.002	0.001	0	0	0	---	---	7
8	---	---	0 B	0.3210	0.012	0.002	0.001	0	0	0	---	---	8
9	---	---	0.0300	0.3020	0.012	0.001	0.001	0	0	0	---	---	9
10	---	---	0.2500	0.2380	0.011	0.002	0.001	0	0	0	---	---	10
11	---	---	0.5000	0.2210	0.010	0.001	0.001	0	0	0	---	---	11
12	---	---	0.5000	0.1880	0.010	0.001	0.001	0	0	0	---	---	12
13	---	---	0.8000	0.1210	0.033	0.001	0.001	0	0	0	---	---	13
14	---	---	0.7250	0.0670	0.020	0.001	0.001	0	0	0	---	---	14
15	---	---	0.8850	0.0620	0.014	0.001	0.001	0	0	0	---	---	15
16	---	---	0.0580	0.0520	0.011	0.001	0	0	0	0	---	---	16
17	---	---	0.1030	0.0360	0.010	0.001	0	0	0	0	---	---	17
18	---	---	0.0510	0.0070	0.010	0	0	0	0	0	---	---	18
19	---	---	0.0580	0.2090	0.008	0	0	0	0	0	---	---	19
20	---	---	0.0110	0.2030	0.009	0	0	0	0	0	---	---	20
21	---	---	0.0040	0.195	0.011	0	0	0	0	0	---	---	21
22	---	---	0.0050	0.170	0.011	0.001	0	0	0	0	---	---	22
23	---	---	0.0060	0.108	0.011	0.001	0	0	0	0	---	---	23
24	---	---	0.0100	0.087	0.010	0.001	0	0	0	0	---	---	24
25	---	---	0.0230	0.053	0.008	0.001	0	0	0	0	---	---	25
26	---	---	0.0630	0.071	0.021	0.001	0	0	0	0	---	---	26
27	---	---	0.0290	0.083	0.009	0.004	0	0	0	0	---	---	27
28	---	---	0.0350	0.068	0.003	0.003	0	0	0	0	---	---	28
29	---		0.4130	0.056	0.003	0.003	0	0	0	0	---	---	29
30	---		0.5260	0.042	0.003	0.003	0	0	0	0	---	---	30
31	---		1.07 B		0.003		0	0		0	---	---	31
TOTAL	---	---	8.429	9.814	0.459	0.045	0.030	0	0	0	---	---	TOTAL
MEAN	---	---	0.207	0.327	0.015	0.002	0.001	0	0	0	---	---	MEAN
MAX	---	---	1.07	1.29	0.036	0.004	0.002	0	0	0	---	---	MAX
MIN	---	---	0	0.036	0.003	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.066
MAXIMUM DAILY, 1.288 ON APR 2
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
1.910 AT 09:13 CST ON APR 2

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 28 N
LONG 98 55 38 W
DRAINAGE AREA, 153 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1.73
FEB	---	AUG	0
MAR	555	SEP	0
APR	848	OCT	0
MAY	39.7	NOV	---
JUN	3.89	DEC	---

TOTAL DISCHARGE, 1 450 dam³

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05090010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.05 B	0.102	0.014	0	0	0	0	---	---	1
2	---	---	0 B	3.13 B	0.080	0.013	0	0	0	0	---	---	2
3	---	---	0 B	2.33 B	0.062	0.011	0	0	0	0	---	---	3
4	---	---	0 B	2.67 B	0.044	0.010	0	0	0	0	---	---	4
5	---	---	0 B	2.34 B	0.048	0.010	0	0	0	0	---	---	5
6	---	---	0 B	2.35 B	0.036	0.009	0	0	0	0	---	---	6
7	---	---	0 B	2.50 B	0.030	0.008	0	0	0	0	---	---	7
8	---	---	0 B	1.91 B	0.029	0.007	0	0	0	0	---	---	8
9	---	---	0 B	1.45 B	0.028	0.006	0	0	0	0	---	---	9
10	---	---	0.0100	1.29 B	0.026	0.008	0	0	0	0	---	---	10
11	---	---	0.2500	1.26 B	0.025	0.007	0	0	0	0	---	---	11
12	---	---	0.3000	1.10 B	0.034	0.005	0	0	0	0	---	---	12
13	---	---	0.5000	0.8630	0.057	0.005	0	0	0	0	---	---	13
14	---	---	0.8000	0.7690	0.044	0.005	0	0	0	0	---	---	14
15	---	---	1.16 B	0.4930	0.041	0.002	0	0	0	0	---	---	15
16	---	---	0.9580	0.4380	0.036	0.001	0	0	0	0	---	---	16
17	---	---	0.8220	0.403	0.035	0	0	0	0	0	---	---	17
18	---	---	1.20 B	0.404	0.030	0	0	0	0	0	---	---	18
19	---	---	0.8340	0.429	0.028	0	0	0	0	0	---	---	19
20	---	---	0.7380	0.439	0.027	0.002	0	0	0	0	---	---	20
21	---	---	0.5130	0.401	0.026	0.003	0	0	0	0	---	---	21
22	---	---	0.5900	0.385	0.023	0.006	0	0	0	0	---	---	22
23	---	---	0.3840	0.301	0.022	0.003	0	0	0	0	---	---	23
24	---	---	0.4480	0.259	0.022	0.010	0	0	0	0	---	---	24
25	---	---	0.5180	0.239	0.021	0.014	0	0	0	0	---	---	25
26	---	---	0.6080	0.197	0.020	0.011	0	0	0	0	---	---	26
27	---	---	0.5830	0.155	0.020	0.008	0	0	0	0	---	---	27
28	---	---	0.6950	0.127	0.017	0.005	0	0	0	0	---	---	28
29	---		0.5820	0.113	0.014	0.004	0	0	0	0	---	---	29
30	---		0.5700	0.101	0.014	0.003	0	0	0	0	---	---	30
31	---		1.90 B		0.014		0	0		0	---	---	31
TOTAL	---	---	16.937	31.695	1.055	0.190	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.482	1.06	0.034	0.006	0	0	0	0	---	---	MEAN
MAX	---	---	1.90	3.13	0.102	0.014	0	0	0	0	---	---	MAX
MIN	---	---	0	0.101	0.014	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.166
MAXIMUM DAILY, 3.130 ON APR 2
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
4.190 AT 11:46 CST ON APR 2

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 21 N
LONG 98 58 56 W
DRAINAGE AREA, 389 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	1 290	SEP	0
APR	2 760	OCT	0
MAY	81.2	NOV	---
JUN	19.4	DEC	---

TOTAL DISCHARGE, 4 160 dam³

CYPRESS CREEK NEAR SANLES - STATION NO. 05BB031

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	2.49 B	0.048	0.001	0.042	0	0	0	0	0B	1
2	0B	0B	0 B	3.34 B	0.046	0	0.042	0	0	0	0	0B	2
3	0B	0B	0 B	3.40 B	0.045	0	0.042	0	0	0	0	0B	3
4	0B	0B	0 B	2.75 B	0.048	0	0.034	0	0	0	0	0B	4
5	0B	0B	0.0028	2.75 B	0.043	0	0.027	0	0	0	0	0B	5
6	0B	0B	0.4258	3.26 B	0.036	0	0.023	0	0	0	0	0B	6
7	0B	0B	0.4838	3.23 B	0.026	0	0.019	0	0	0	0	0B	7
8	0B	0B	0.0578	2.95 B	0.022	0	0.016	0	0	0	0	0B	8
9	0B	0B	0.0018	2.44 B	0.017	0	0.011	0	0	0	0	0B	9
10	0B	0B	0.0018	1.87 B	0.015	0	0.011	0	0	0	0	0B	10
11	0B	0B	0.0038	1.16	0.015	0	0.008	0	0	0	0	0B	11
12	0B	0B	0.3848	0.904	0.016	0	0.003	0	0	0	0	0B	12
13	0B	0B	1.53 B	0.368	0.031	0	0.001	0	0	0	0	0B	13
14	0B	0B	1.27 B	0.340	0.027	0	0	0	0	0	0	0B	14
15	0B	0B	0.5848	0.272	0.030	0	0	0	0	0	0	0B	15
16	0B	0B	1.22 B	0.248	0.017	0	0	0	0	0	0	0B	16
17	0B	0B	0.7038	0.248	0.016	0	0	0	0	0	0	0B	17
18	0B	0B	0.3968	0.248	0.016	0	0	0	0	0	0	0B	18
19	0B	0B	0.2618	0.216	0.013	0	0	0	0	0	0	0B	19
20	0B	0B	0.1988	0.184	0.013	0	0	0	0	0	0	0B	20
21	0B	0B	0.1648	0.170	0.012	0	0	0	0	0	0B	0B	21
22	0B	0B	0.1598	0.184	0.010	0	0	0	0	0	0B	0B	22
23	0B	0B	0.1228	0.147	0.010	0	0	0	0	0	0B	0B	23
24	0B	0B	0.1058	0.136	0.008	0	0	0	0	0	0B	0B	24
25	0B	0B	0.1368	0.127	0.008	0	0	0	0	0	0B	0B	25
26	0B	0B	0.1198	0.127	0.005	0	0	0	0	0	0B	0B	26
27	0B	0B	0.0998	0.110	0.004	0	0	0	0	0	0B	0B	27
28	0B	0B	0.1368	0.082	0.003	0	0	0	0	0	0B	0B	28
29	0B		0.1988	0.085	0.001	0.006	0	0	0	0	0B	0B	29
30	0B		0.4258	0.054	0.001	0.034	0	0	0	0	0B	0B	30
31	0B		1.84 B		0.001		0			0		0B	31
TOTAL	0	0	11.047	33.271	0.592	0.041	0.279	0	0	0	0	0	TOTAL
MEAN	0	0	0.356	1.11	0.019	0.001	0.009	0	0	0	0	0	MEAN
MAX	0	0	1.84	3.40	0.048	0.034	0.042	0	0	0	0	0	MAX
MIN	0	0	0	0.054	0.001	0	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.124
MAXIMUM DAILY, 3.400 ON APR 3
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
4.198 AT 20:45 CST ON APR 2

SUMMARY FOR THE YEAR 1983

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 58 35 N
LONG 98 57 05 W
DRAINAGE AREA, 194 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	34.1
FEB	0	AUG	0
MAR	954	SEP	0
APR	2 870	OCT	0
MAY	91.1	NOV	0
JUN	3.54	DEC	0

TOTAL DISCHARGE, 3 990 dam³

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.01 B	0.308	0.042	0.158	0	0	0	---	---	1
2	---	---	0 B	5.64 B	0.269	0.036	0.167	0	0	0	---	---	2
3	---	---	0 B	5.32 B	0.222	0.044	0.158	0	0	0	---	---	3
4	---	---	0 B	5.64 B	0.180	0.036	0.137	0	0	0	---	---	4
5	---	---	0 B	5.84 B	0.153	0.034	0.119	0	0	0	---	---	5
6	---	---	0 B	4.72 B	0.148	0.030	0.098	0	0	0	---	---	6
7	---	---	0 B	5.01 B	0.148	0.026	0.083	0	0	0	---	---	7
8	---	---	0 B	4.07 B	0.126	0.022	0.064	0	0	0	---	---	8
9	---	---	0 B	7.91 B	0.113	0.017	0.058	0	0	0	---	---	9
10	---	---	0 B	6.56 B	0.109	0.017	0.048	0	0	0	---	---	10
11	---	---	0 B	5.29 B	0.088	0.013	0.029	0	0	0	---	---	11
12	---	---	0.0348	4.50 B	0.102	0.009	0.022	0	0	0	---	---	12
13	---	---	0.0578	3.93 B	0.139	0.008	0.016	0	0	0	---	---	13
14	---	---	0.1568	3.25 B	0.148	0.016	0.011	0	0	0	---	---	14
15	---	---	0.0898	2.28 B	0.133	0.013	0.008	0	0	0	---	---	15
16	---	---	0.0138	1.93 B	0.110	0.016	0.007	0	0	0	---	---	16
17	---	---	0.0078	1.83	0.094	0.015	0.004	0	0	0	---	---	17
18	---	---	0.0068	1.46	0.091	0.013	0.003	0	0	0	---	---	18
19	---	---	0.0188	1.32	0.101	0.015	0.002	0	0	0	---	---	19
20	---	---	0.0278	1.36	0.098	0.025	0.001	0	0	0	---	---	20
21	---	---	0.0148	1.10	0.105	0.034	0	0	0	0	---	---	21
22	---	---	0.0038	0.887	0.089	0.110	0	0	0	0	---	---	22
23	---	---	0.0278	0.846	0.078	0.301	0	0	0	0	---	---	23
24	---	---	0.0808	0.784	0.076	0.384	0	0	0	0	---	---	24
25	---	---	0.0488	0.718	0.066	0.587	0	0	0	0	---	---	25
26	---	---	0.0198	2.630	0.064	0.607	0	0	0	0	---	---	26
27	---	---	0.0898	2.542	0.062	0.450	0	0	0	0	---	---	27
28	---	---	0.4338	2.467	0.057	0.333	0	0	0	0	---	---	28
29	---		0.4968	2.404	0.053	0.281	0	0	0	0	---	---	29
30	---		1.20 B	0.359	0.052	0.241	0	0	0	0	---	---	30
31	---		3.17 B		0.050		0	0		0		---	31
TOTAL	---	---	5.958	93.708	3.838	3.816	1.218	0	0	0	---	---	TOTAL
MEAN	---	---	0.192	3.12	0.117	0.121	0.039	0	0	0	---	---	MEAN
MAX	---	---	3.17	7.91	0.306	0.607	0.158	0	0	0	---	---	MAX
MIN	---	---	0	0.359	0.050	0.008	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.441
MAXIMUM DAILY, 7.910 ON APR 9
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
8.410 AT 13:00 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 28 48 N
LONG 98 54 35 W
DRAINAGE AREA, 264 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	105
FEB	---	AUG	0
MAR	515	SEP	0
APR	5 100	OCT	0
MAY	313	NOV	---
JUN	312	DEC	---

TOTAL DISCHARGE, 9 350 dam³

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO 05MH004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	10.3 B	0.782	0.178	0.310	0	0	0	---	---	1
2	---	---	0 B	9.78 B	0.835	0.170	0.288	0	0	0	---	---	2
3	---	---	0 B	11.6 B	0.846	0.157	0.274	0	0	0	---	---	3
4	---	---	0 B	11.8 B	0.582	0.142	0.223	0	0	0	---	---	4
5	---	---	0 B	11.3 B	0.619	0.135	0.200	0	0	0	---	---	5
6	---	---	0 B	11.5 B	0.732	0.112	0.172	0	0	0	---	---	6
7	---	---	0 B	9.56 B	1.32	0.102	0.171	0	0	0	---	---	7
8	---	---	0 B	11.0 B	0.617	0.116	0.136	0	0	0	---	---	8
9	---	---	0 B	12.2 B	0.433	0.182	0.125	0	0	0	---	---	9
10	---	---	0 B	11.8 B	0.474	0.662	0.115	0	0	0	---	---	10
11	---	---	0 B	9.70 B	0.484	0.670	0.085	0	0	0	---	---	11
12	---	---	0.0088	8.23 B	0.444	0.656	0.072	0	0	0	---	---	12
13	---	---	0.0472	6.91 B	0.488	0.656	0.056	0	0	0	---	---	13
14	---	---	0.4008	6.13 B	0.450	0.669	0.037	0	0	0	---	---	14
15	---	---	0.3888	6.88 B	0.438	0.985	0.030	0	0	0	---	---	15
16	---	---	0.1858	4.11 B	0.388	0.080	0.035	0	0	0	---	---	16
17	---	---	0.0598	3.27	0.368	0.046	0.071	0	0	0	---	---	17
18	---	---	0.0358	3.01	0.323	0.033	0.038	0	0	0	---	---	18
19	---	---	0.0188	2.34	0.383	0.035	0.014	0	0	0	---	---	19
20	---	---	0.0148	2.10	0.369	0.059	0.006	0	0	0	---	---	20
21	---	---	0.0118	1.95	0.335	0.087	0.003	0	0	0	---	---	21
22	---	---	0.0078	2.33	0.301	0.124	0.002	0	0	0	---	---	22
23	---	---	0.0038	3.01	0.280	0.162	0.001	0	0	0	---	---	23
24	---	---	0.0288	1.75	0.288	0.183	0	0	0	0	---	---	24
25	---	---	0.0308	1.45	0.343	0.238	0	0	0	0	---	---	25
26	---	---	0.0408	1.43	0.338	0.227	0	0	0	0	---	---	26
27	---	---	0.0808	1.18	0.220	0.444	0	0	0	0	---	---	27
28	---	---	0.2348	1.04	0.211	0.409	0	0	0	0	---	---	28
29	---		2.36 B	0.885	0.190	0.344	0	0	0	0	---	---	29
30	---		6.54 B	0.817	0.186	0.335	0	0	0	0	---	---	30
31	---		18.0 B		0.188		0	0		0		---	31
TOTAL	---	---	38.456	178.095	13.468	4.506	2.494	0	0	0	---	---	TOTAL
MEAN	---	---	0.918	5.87	0.432	0.150	0.080	0	0	0	---	---	MEAN
MAX	---	---	18.0	12.3	1.32	0.484	0.310	0	0	0	---	---	MAX
MIN	---	---	0	0.817	0.186	0.033	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.918
MAXIMUM DAILY, 18.00 ON MAR 31
MINIMUM DAILY, 0.00 ON MAR 1
MAXIMUM INSTANTANEOUS,
18.48 AT 14.15 CST ON MAR 31

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 21 N
LONG 99 03 00 W
DRAINAGE AREA, 572 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	215
FEB	---	AUG	0
MAR	2 480	SEP	0
APR	15 200	OCT	0
MAY	1 180	NOV	---
JUN	389	DEC	---

TOTAL DISCHARGE, 19 400 dam³

DAUPHIN LAKE AT OCHRE BEACH - STATION NO. 05LJ010

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	280.998	281.028	280.850	280.681	280.505E	280.432	---	1
2	---	---	---	---	---	280.987	281.018	280.830	280.700	280.495	280.427	---	2
3	---	---	---	---	---	281.018	281.068E	280.905	280.710	280.490	280.282	---	3
4	---	---	---	---	---	281.033	281.118	280.905	280.620	280.450	280.342	---	4
5	---	---	---	---	---	280.993	281.018	280.890	280.635	280.620	280.402	---	5
6	---	---	---	---	---	281.033	281.018	280.980	280.720	280.480	280.402	---	6
7	---	---	---	---	---	280.988	281.033	280.885E	280.800	280.480	280.302	---	7
8	---	---	---	---	---	281.038	281.038	280.930	280.695	280.480	280.462	---	8
9	---	---	---	---	---	281.018	280.978	280.885	280.661	280.485E	280.352	---	9
10	---	---	---	---	---	280.988	281.038	280.880	280.720	280.490	280.347	---	10
11	---	---	---	---	---	280.983E	281.088	280.810	280.680	280.480	280.327	---	11
12	---	---	---	---	---	280.978	281.088	280.610	280.598	280.480E	280.348E	---	12
13	---	---	---	---	---	280.928	281.005	280.780E	280.685	280.470	280.372	---	13
14	---	---	---	---	---	280.977	281.010	280.782	280.630	280.470	280.397	---	14
15	---	---	---	---	---	281.068	281.080	280.830	280.580	280.467E	280.347	---	15
16	---	---	---	---	---	280.978	281.010	280.780	280.580	280.485	280.282	---	16
17	---	---	---	---	---	280.978	281.010	280.840	280.630	280.480	280.342	---	17
18	---	---	---	---	---	280.938	281.005	280.750	280.585E	280.480	280.344	---	18
19	---	---	---	---	280.981	280.928	281.015	280.830	280.580	280.490	280.343E	---	19
20	---	---	---	---	280.987	280.953	281.005	280.870	280.630	280.440	280.342	---	20
21	---	---	---	---	280.997	280.953	281.038	280.810	280.580	280.455	280.352	---	21
22	---	---	---	---	280.978	280.908	280.990	280.730	280.580	280.480	---	---	22
23	---	---	---	---	280.948	280.963	281.040	280.700	280.610	280.445	---	---	23
24	---	---	---	---	280.998	280.918	280.970	280.710	280.613E	280.440	---	---	24
25	280.983	---	---	---	281.048	281.018	280.950	280.720	280.615	280.382	---	---	25
26	---	---	---	---	280.983	281.188	280.930	280.720	280.530	280.432	---	---	26
27	---	---	---	---	281.018	281.018	280.938	280.730	280.521	280.437	---	---	27
28	---	---	---	---	281.088	280.998	280.990	280.880	280.610	280.442	---	---	28
29	---		---	---	281.038	281.028	280.980	280.710	280.583	280.434	---	---	29
30	---		---	---	281.068	281.018	280.970	280.681	280.615	280.434	---	---	30
31	---		---		280.998		280.930E	280.630		280.412		---	31
MEAN	---	---	---	---	---	280.989	281.007	280.783	280.594	280.464	---	---	MEAN
MAX	---	---	---	---	---	281.188	281.118	280.980	280.720	280.620	---	---	MAX
MIN	---	---	---	---	---	280.893	280.920	280.630	280.583	280.382	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 281.188 ON JUN 25

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 08 45 N
LONG 98 44 20 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DAUPHIN LAKE AT OUTLET - STATION NO. 05LJ009

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	260.299	260.260	260.245	260.255	260.821	260.949	260.979	260.853	260.623	260.435A	260.336	260.322	1
2	260.296	260.260	260.243	260.259	260.826	260.959	260.999	260.853	260.645	260.449A	260.394	260.317	2
3	260.295	260.261	260.243	260.258	260.832	260.884	260.928	260.860	260.515	260.452A	260.628	260.314	3
4	260.295	260.256	260.246	260.252	260.844	260.887	260.889	260.841	260.577	260.467A	260.433	260.313	4
5	260.296	260.256	260.239	260.255	260.851	260.910	260.965	260.806	260.600	260.348A	260.362	260.305	5
6	260.295	260.257	260.247	260.255	260.856	260.906	260.967	260.855	260.495	260.440A	260.384	260.306	6
7	260.289	260.251	260.279	260.253	260.863	260.942	260.955	260.747	260.594	260.442	260.247	260.300	7
8	260.298	260.253	260.284	260.251	260.861	260.915	260.938	260.791	260.547	260.451	260.307	260.304	8
9	260.299	260.251	260.283	260.249	260.853	260.952	260.976	260.809	260.567	260.517	260.401	260.303	9
10	260.290	260.249	260.281	260.245	260.827	260.949	260.932	260.740	260.429	260.410	260.423	260.298	10
11	260.297	260.249	260.279	260.241	260.753A	260.954	260.879	260.785	260.530	260.303A	260.477	260.302	11
12	260.292	260.249	260.271	260.246	260.831A	260.962	260.969	260.805	260.536	260.409A	260.505	260.301	12
13	260.289	260.241	260.262	260.250	260.737A	260.882	260.949	260.708	260.542	260.457A	260.351	260.297	13
14	260.292	260.244	260.269	260.258	260.876A	260.849	261.002	260.771	260.559	260.433A	260.311	260.291	14
15	260.292	260.247	260.267	260.258	260.905A	260.813	260.926	260.711	260.538	260.462A	260.382	260.301	15
16	260.285	260.237	260.268	260.262	260.907A	260.932	260.950	260.809	260.664	260.355A	260.495	260.300	16
17	260.285	260.238	260.263	260.264	260.903A	260.925	260.968	260.722	260.592	260.385A	260.404	260.298	17
18	260.288	260.246	260.263	260.261	260.923	260.977	260.973	260.719	260.308	260.478A	260.352	260.296	18
19	260.282	260.245	260.261	260.266	260.878	260.955	260.959	260.585	260.389	260.448A	260.317	260.298	19
20	260.281	260.250	260.259	260.274	260.952	260.903	260.942	260.774	260.342A	260.487A	260.241	260.290	20
21	260.283	260.250	260.259	260.298	260.887	260.904	260.943	260.657	260.343A	260.418A	260.230	260.288	21
22	260.279	260.248	260.258	260.340	260.942	260.882	260.876	260.675	260.463A	260.441A	260.321	260.285	22
23	260.275	260.241	260.255	260.400	260.939	260.897	260.876	260.671	260.497A	260.416A	260.328	260.283	23
24	260.273	260.239	260.255	260.475	260.963	260.924	260.918	260.675	260.482A	260.390A	260.308	260.285	24
25	260.276	260.246	260.250	260.554	260.962	260.930	260.936	260.662	260.457A	260.390A	260.334	260.287	25
26	260.276	260.240	260.249	260.651	260.999	260.905	260.946	260.661	260.484A	260.408A	260.329	260.282	26
27	260.273	260.237	260.252	260.716	260.948	260.951	260.889	260.670	260.483A	260.354A	260.322	260.282	27
28	260.268	260.245	260.251	260.771	260.924	260.972	260.859	260.647	260.354A	260.354A	260.317	260.273	28
29	260.267		260.252	260.795	260.907	260.986	260.857	260.660	260.455A	260.417A	260.318	260.278	29
30	260.268		260.254	260.810	260.883	260.951	260.846	260.644	260.446A	260.388A	260.322	260.273	30
31	260.269		260.250		260.926		260.837	260.656		260.399		260.271	31
MEAN	260.285	260.248	260.259	260.384	260.881	260.924	260.930	260.737	260.502	260.418	260.363	260.295	MEAN
MAX	260.299	260.261	260.284	260.810	260.999	260.986	261.002	260.863	260.664	260.517	260.628	260.322	MAX
MIN	260.268	260.237	260.239	260.241	260.737	260.813	260.837	260.585	260.308	260.303	260.230	260.271	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MEAN, 260.519
MAXIMUM DAILY, 261.002 ON JUL 14
MINIMUM DAILY, 260.230 ON NOV 21
MAXIMUM INSTANTANEOUS,
261.124 AT 05:35 CST ON JUL 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 26 22 N
LONG 99 57 00 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DAUPHIN RIVER NEAR ANAMA BAY - STATION NO. 05LM006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.76B	6.43B	5.26B	6.96B	42.6E	64.5	128	129	120	69.5	60.0	23.7B	1
2	6.01B	6.23B	5.30B	7.04B	42.1E	67.3	132	132	121	70.8	52.8	23.0B	2
3	6.64B	6.16B	5.19B	7.43B	42.0E	71.0	137	130	123	70.4	56.4	22.4B	3
4	6.99B	5.77B	5.07B	7.72B	44.9A	80.5	81.3	132	121	68.9	65.6	21.7B	4
5	7.09B	5.25B	5.13B	8.23B	43.7	82.9	90.9A	127	118	65.5	66.3	21.0B	5
6	7.09B	4.87B	6.35B	8.84B	42.2	67.1	107	131	110	65.6	61.1	20.8B	6
7	7.06B	4.69B	5.84B	9.41B	42.0	72.2	109	126	109	66.6	61.2	20.6B	7
8	7.00B	4.11B	7.01B	10.4 B	44.8	72.5	106	124	110	69.3	54.2	20.3B	8
9	6.93B	3.81B	7.21B	12.1 B	47.4	76.2	107	129	105	74.5	56.5	20.1B	9
10	6.82B	3.82B	7.24B	13.9 B	48.1	77.7	111	128	103	73.4	58.7	19.9B	10
11	6.91B	3.70B	7.26B	14.6 B	42.4	77.5	111	127	103	64.0	55.6	19.8B	11
12	6.63B	3.71B	7.08B	15.7 B	39.1	69.6	120	133	101	63.4	54.0	19.7B	12
13	6.11B	3.72B	6.90B	16.2 B	39.1	76.2	123	127	98.9	65.6	57.9	19.7B	13
14	6.10B	3.72B	6.93B	16.4 B	31.9	76.0	122	129	96.2	65.7	55.7	19.6B	14
15	6.19B	3.68B	7.08B	15.5 B	46.6	93.2	125	128	93.7	65.5	55.6	19.5B	15
16	6.45B	3.85B	7.20B	15.7 B	53.6	102	126	127	92.1	62.3	59.8	19.4B	16
17	6.45B	3.92B	7.08B	16.7 B	57.9	117	130	129	101	60.2	59.6	19.4B	17
18	6.40B	4.02B	6.98B	17.0 B	60.3	129	130	126	97.6	63.0	58.4	19.3B	18
19	6.24B	3.92B	7.15B	17.2 B	56.7	137	128	117	97.8	63.3	57.5	19.2B	19
20	6.25B	3.63B	7.31B	17.5 B	56.4	134	129	124	86.0	67.3	56.2	19.2B	20
21	6.28B	3.71B	7.39B	17.7 B	62.9	133	125	124	78.3	71.3	48.28	19.0B	21
22	6.31B	4.18B	7.48B	18.5 B	60.3	132	128	121	77.6	65.7	47.18	18.8B	22
23	6.37B	4.48B	7.48B	24.0 B	63.2	127	126	123	85.6	65.4	46.88	18.7B	23
24	6.38B	4.35B	7.40B	29.8 B	61.6	130	126	122	84.7	60.5	38.83	18.6B	24
25	6.37B	4.24B	7.44B	34.4 B	64.6	137	129	121	82.1	60.7	31.68	18.4B	25
26	6.40B	4.33B	7.08B	39.2 B	69.6	121	136	121	81.1	61.0	26.78	18.3B	26
27	6.38B	4.67B	6.92B	43.7 E	66.0	118	132	121	82.0	61.0	27.88	18.3B	27
28	6.37B	5.21B	7.04B	43.6 E	61.5	124	129	121	71.5	54.1	27.08	18.2B	28
29	6.43B		6.90B	43.2 E	55.9	136	127	120	73.1	59.7	25.88	18.1B	29
30	6.44B		6.85B	43.0 E	57.1	136	125	120	73.5	60.6	24.48	18.1B	30
31	6.40B		6.85B		59.5		126	121		60.0		18.0B	31
TOTAL	201.39	124.42	208.87	593.63	1 608.4	2 995.4	3 782.2	3 893	2 897.0	2 018.3	1 511.7	611.0	TOTAL
MEAN	6.50	4.44	6.73	19.8	51.9	99.8	121	126	96.6	65.1	50.4	19.7	MEAN
MAX	7.09	6.43	7.48	43.7	69.6	137	137	133	123	74.5	66.3	23.7	MAX
MIN	5.76	3.63	5.07	6.96	31.9	60.5	81.3	117	71.5	54.1	24.4	18.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE YEAR 1983

MEAN, 66.0
MAXIMUM DAILY, 137 ON JUN 19
MINIMUM DAILY, 3.630 ON FEB 20
MAXIMUM INSTANTANEOUS,
148 AT 12:50 CST ON JUN 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 00 00 N
LONG 98 19 20 W
DRAINAGE AREA, 81 600 km^2
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1976

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	17 400	JUL	325 000
FEB	10 700	AUG	336 000
MAR	18 000	SEP	250 000
APR	51 300	OCT	174 000
MAY	139 000	NOV	131 000
JUN	259 000	DEC	52 800

TOTAL DISCHARGE, 1 700 000 dam^3

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.0106	0.052	0	0	0	0	0	0	---	1
2	---	---	0 B	0.0308	0.037	0	0	0	0	0	0	---	2
3	---	---	0 B	0.0148	0.077	0	0	0	0	0	0	---	3
4	---	---	0 B	0.0898	0.065	0	0	0	0	0	0	---	4
5	---	---	0 B	0.2958	0.039	0	0	0	0	0	0	---	5
6	---	---	0 B	0.2138	0.030	0	0	0	0	0	0	---	6
7	---	---	0 B	0.2398	0.023	0	0	0	0	0	0	---	7
8	---	---	0 B	0.1548	0.018	0	0	0	0	0	0	---	8
9	---	---	0 B	0.3318	0.016	0	0	0	0	0	0	---	9
10	---	---	0 B	3.14 B	0.011	0	0	0	0	0	0	---	10
11	---	---	0 B	5.28 B	0.008	0	0	0	0	0	---	---	11
12	---	---	0 B	7.85 B	0.010	0	0	0	0	0	---	---	12
13	---	---	0 B	5.05 B	0.017	0	0	0	0	0	---	---	13
14	---	---	0 B	3.18 B	0.012	0	0	0	0	0	---	---	14
15	---	---	0 B	1.84 B	0.010	0	0	0	0	0	---	---	15
16	---	---	0 B	0.4918	0.009	0	0	0	0	0	---	---	16
17	---	---	0 B	0.0108	0.008	0	0	0	0	0	---	---	17
18	---	---	0 B	0.0038	0.008	0	0	0	0	0	---	---	18
19	---	---	0 B	0.0028	0	0	0	0	0	0	---	---	19
20	---	---	0 B	0.0198	0	0	0	0	0	0	---	---	20
21	---	---	0 B	4.98	0	0	0	0	0	0	---	---	21
22	---	---	0 B	27.9	0	0	0	0	0	0	---	---	22
23	---	---	0 B	52.3	0	0	0	0	0	0	---	---	23
24	---	---	0 B	36.8	0	0	0	0	0	0	---	---	24
25	---	---	0 B	24.7	0	0	0	0	0	0	---	---	25
26	---	---	0 B	15.3	0	0	0	0	0	0	---	---	26
27	---	---	0 B	7.18	0	0	0	0	0	0	---	---	27
28	---	---	0 B	1.91	0	0	0	0	0	0	---	---	28
29	---		0 B	0.425	0	0	0	0	0	0	---	---	29
30	---		0 B	0.078	0	0	0	0	0	0	---	---	30
31	---		0.0048		0		0	0		0		---	31
TOTAL	---	---	0.004	201.814	0.482	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	6.72	0.015	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.004	52.3	0.077	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.002	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.825
MAXIMUM DAILY, 52.3 ON APR 23
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
80.5 AT 23:45 CST ON APR 22

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 10 55 N
LONG 98 55 55 W

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0.35	SEP	0
APR	17 400	OCT	0
MAY	39.9	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 17 400 dam³

DEADHORSE CREEK AT MORDEN - STATION NO. 05DC015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.8088	0.021	0.011	0.002	0	0	0	---	---	1
2	---	---	0 B	0.539	0.020	0.010	0.004	0	0	0	---	---	2
3	---	---	0 B	0.498	0.024	0.018	0.004	0	0	0	---	---	3
4	---	---	0 B	0.804	0.028	0.018	0.003	0	0	0	---	---	4
5	---	---	0.0078	3.11	0.027	0.013	0.002	0	0	0	---	---	5
6	---	---	0.0278	6.83	0.018	0.010	0.002	0	0	0	---	---	6
7	---	---	0.0198	5.22	0.018	0.004	0.001	0	0	0	---	---	7
8	---	---	0.0138	4.52	0.025	0.006	0	0	0	0	---	---	8
9	---	---	0.0098	3.10	0.087	0.002	0	0	0	0	---	---	9
10	---	---	0.0078	1.86	0.053	0.002	0	0	0	0	---	---	10
11	---	---	0.0068	1.08	0.027	0.002	0	0	0	0	---	---	11
12	---	---	0.0058	0.718	0.021	0.018	0.012	0	0	0	---	---	12
13	---	---	0.0308	0.418	0.177	0.008	0.003	0	0	0	---	---	13
14	---	---	0.1208	0.306	0.031	0.005	0.001	0	0	0	---	---	14
15	---	---	0.3028	0.214	0.017	0.003	0.001	0	0	0	---	---	15
16	---	---	0.1938	0.143	0.014	0.002	0.001	0	0	0	---	---	16
17	---	---	0.1448	0.119	0.045	0.001	0	0	0	0	---	---	17
18	---	---	0.1128	0.118	0.098	0.001	0	0	0	0	---	---	18
19	---	---	0.0868	0.126	0.036	0.001	0.001	0	0	0	---	---	19
20	---	---	0.0428	0.168	0.019	0.002	0	0	0	0	---	---	20
21	---	---	0.0288	0.188	0.074	0.002	0	0	0	0	---	---	21
22	---	---	0.0208	0.185	0.026	0.007	0	0	0	0	---	---	22
23	---	---	0.0158	0.148	0.017	0.004	0	0	0	0	---	---	23
24	---	---	0.0138	0.116	0.013	0.002	0	0	0	0	---	---	24
25	---	---	0.0118	0.113	0.012	0.002	0	0	0	0	---	---	25
26	---	---	0.0108	0.107	0.012	0.001	0	0	0	0	---	---	26
27	---	---	0.0098	0.086	0.018	0.001	0	0	0	0	---	---	27
28	---	---	0.0088	0.082	0.020	0.001	0	0	0	0	---	---	28
29	---		0.0808	0.084	0.015	0.001	0	0	0	0	---	---	29
30	---		0.4818	0.033	0.013	0.002	0	0	0	0	---	---	30
31	---		1.82 B		0.013		0	0		0		---	31
TOTAL	---	---	3.417	32.886	1.043	0.183	0.037	0	0	0	---	---	TOTAL
MEAN	---	---	0.110	1.10	0.034	0.006	0.001	0	0	0	---	---	MEAN
MAX	---	---	1.82	6.83	0.177	0.018	0.012	0	0	0	---	---	MAX
MIN	---	---	0	0.033	0.012	0.001	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.183
MAXIMUM DAILY, 6.83 ON APR 6
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
8.50 AT 23:34 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 47 N
LONG 98 05 38 W
DRAINAGE AREA, 136 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3.70
FEB	---	AUG	0
MAR	295	SEP	0
APR	2 840	OCT	0
MAY	90.1	NOV	---
JUN	14.1	DEC	---

TOTAL DISCHARGE, 3 240 dam³

DEER RIVER NORTH OF BELCHER - STATION NO. 05FD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.990	1.480	1.150	1.00 B	0.9210	47.2B	35.9 E	30.3	35.3	60.6	19.7 B	5.410	1
2	1.950	1.470	1.140	0.9960	0.9160	83.0B	33.2 E	29.4	40.8	54.7	19.1 B	5.310	2
3	1.940	1.450	1.140	0.9900	0.9160	130 B	30.8 E	19.0	53.0	48.6	18.7 B	5.220	3
4	1.910	1.440	1.130	0.9810	0.9110	176 B	28.8 E	17.8	84.1	44.2	17.3 B	5.130	4
5	1.900	1.430	1.120	0.9660	0.9110	215 B	26.8 E	17.1	108	40.6	16.5 B	5.040	5
6	1.870	1.420	1.120	0.9620	0.9110	260 B	24.8 E	16.5	118	38.6	15.3 B	4.940	6
7	1.840	1.410	1.110	0.9620	0.9060	321 B	23.2 E	16.0	119	37.3	14.5 B	4.850	7
8	1.820	1.400	1.110	0.9770	0.9060	324 B	22.0 E	14.8	112	35.9	13.9 B	4.810	8
9	1.810	1.380	1.100	0.9720	0.9020	321 E	20.7 E	14.3	102	33.7	12.6 B	4.760	9
10	1.800	1.370	1.100	0.9720	0.9020	306 A	19.8 E	13.8	92.0	32.3	11.8 B	4.680	10
11	1.790	1.350	1.080	0.9660	0.8970	281	19.0 E	13.2	80.1	30.7	11.1 B	4.570	11
12	1.770	1.330	1.080	0.9660	0.8970	263	18.1 E	12.1	70.0	29.4	10.5 B	4.520	12
13	1.760	1.310	1.080	0.9630	0.8920	264	17.4 E	11.3	61.6	27.7	9.740	4.440	13
14	1.730	1.300	1.070	0.9630	0.8920	240	16.8 E	10.2	55.2	26.5	9.200	4.330	14
15	1.730	1.280	1.070	0.9580	0.8920	218	16.2 E	9.82	48.1	25.4	8.650	4.260	15
16	1.700	1.270	1.070	0.9530	0.8880	202	15.3 E	9.32	43.8	24.4	8.300	4.160	16
17	1.690	1.260	1.070	0.9530	0.8880	184	15.0 E	9.01	39.3	24.1	8.010	4.130	17
18	1.680	1.250	1.060	0.9490	0.8880	161	14.4 E	8.66	38.7	24.2	7.590	4.110	18
19	1.660	1.240	1.060	0.9440	0.8880	134	13.7	8.66	51.5	24.1	7.320	4.080	19
20	1.640	1.230	1.060	0.9440	0.8830	112 E	13.0	11.2	77.1	23.2	7.040	4.020	20
21	1.620	1.220	1.050	0.9380	0.8630	97.5E	12.3	17.2	98.4	23.2	6.830	3.970	21
22	1.600	1.200	1.050	0.9380	0.8630	85.2E	11.7	23.3	109	23.4	6.660	3.940	22
23	1.580	1.200	1.040	0.9380	0.8630	77.3E	11.1	31.7	110	23.4	6.530	3.900	23
24	1.570	1.180	1.030	0.9380	0.8920	68.4E	10.4	39.6	105	23.5	6.350	3.830	24
25	1.560	1.180	1.030	0.9380	0.9560	63.5E	9.91	44.4	103	23.4	6.130	3.780	25
26	1.550	1.170	1.020	0.9380	1.40 B	57.5E	9.75	46.6	97.7	23.1	6.010	3.730	26
27	1.540	1.160	1.020	0.9360	12.8 B	51.3E	9.75	48.2	90.4	22.2	5.850	3.690	27
28	1.530	1.160	1.010	0.9300	12.8 B	47.2E	10.8	46.2	82.0	22.3	5.730	3.640	28
29	1.510		1.010	0.9250	13.4 B	43.1E	14.9	43.3	73.8	21.6	5.630	3.580	29
30	1.500		1.010	0.9210	15.5 B	39.0E	18.4	39.9	67.3	21.3	5.530	3.550	30
31	1.480		1.000		21.3 B		20.3	36.2		20.5		3.500	31
TOTAL	53.01	36.56	33.20	28.782	100.224	4 923.0	584.45	685.67	2 389.0	934.1	307.90	133.85	TOTAL
MEAN	1.71	1.31	1.07	0.959	3.23	164	18.2	22.2	79.6	30.1	10.3	4.32	MEAN
MAX	1.99	1.48	1.15	1.00	21.3	324	35.9	48.2	118	60.6	19.7	5.41	MAX
MIN	1.48	1.16	1.00	0.921	0.883	39.0	9.75	8.66	35.3	20.5	5.53	3.50	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 27.9
MAXIMUM DAILY, 324B ON JUN 6
MINIMUM DAILY, 0.883B ON MAY 20

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 00 54 N
LONG 94 11 44 W
DRAINAGE AREA, 1 880 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 580	JUL	48 800
FEB	3 160	AUG	59 600
MAR	2 870	SEP	205 000
APR	2 490	OCT	80 700
MAY	8 660	NOV	26 600
JUN	425 000	DEC	11 600

TOTAL DISCHARGE, 875 000 dam³

DELORAINE RESERVOIR NEAR DELORAINE - STATION NO. 05MC014

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	539.503A	539.972E	540.286	540.295	540.206	539.987	539.750	539.640	539.557	---	1
2	---	---	539.501	540.015E	540.268	540.289	540.208	539.891	539.737	539.640	539.554	---	2
3	---	---	539.502	540.054E	540.250	540.302	540.217	539.981	539.725	539.642	539.558	---	3
4	---	---	539.503	540.101E	540.233	540.302	540.214	539.971	539.717	539.642	539.584A	---	4
5	---	---	539.509	540.144E	540.219	540.302	540.208	539.960	539.709	539.638	---	---	5
6	---	---	539.548	540.188E	540.203	540.300	540.199	539.949	539.702	539.624	---	---	6
7	---	---	539.587	540.228A	540.190	540.300	540.192	539.935	539.693	539.631	---	---	7
8	---	---	539.594	540.280A	540.182	540.298	540.185	539.924	539.681	539.629	---	---	8
9	---	---	539.595	540.213E	540.182	540.293	540.176	539.916	539.690	539.626	---	---	9
10	---	---	539.601	540.338E	540.181	540.301	540.172	539.906	539.682	539.622	---	---	10
11	---	---	539.600	540.363E	540.178	540.301	540.168	539.896	539.682	539.618	---	---	11
12	---	---	539.615	540.388E	540.186	540.298	540.150	539.884	539.691	539.614	---	---	12
13	---	---	539.593	540.414E	540.195	540.290	540.138	539.873	539.688	539.611	---	---	13
14	---	---	539.737	540.440A	540.198	540.282	540.130	539.863	539.686	539.607	---	---	14
15	---	---	539.757	540.462	540.202	540.272	540.120	539.854	539.708	539.602	---	---	15
16	---	---	539.773	540.448	540.208	540.265	540.118	539.842	539.708	539.598	---	---	16
17	---	---	539.785	540.445	540.207	540.257	540.104	539.838	539.703	539.594	---	---	17
18	---	---	539.792	540.429	540.213	540.249	540.089	539.830	539.692	539.589	---	---	18
19	---	---	539.788	540.433E	540.226	540.243	540.084	539.821	539.686	539.584	---	---	19
20	---	---	539.789	540.425E	540.237	540.239	540.085	539.815	539.680	539.583	---	---	20
21	---	---	539.800	540.418E	540.250	540.234	540.077	539.806	539.672	539.581	---	---	21
22	---	---	539.800	540.408E	540.259	540.247	540.065	539.803	539.667	539.581	---	---	22
23	---	---	539.803	540.388E	540.272	540.243	540.057	539.787	539.661	539.578	---	---	23
24	---	---	539.802	540.368E	540.261	540.238	540.048	539.782	539.656	539.580	---	---	24
25	---	---	539.800	540.389	540.258	540.233	540.041	539.765	539.653	539.577	---	---	25
26	---	---	539.788	540.383	540.285	540.225	540.032	539.778	539.649	539.574	---	---	26
27	---	---	539.787	540.354	540.305	540.214	540.023	539.771	539.642	539.569	---	---	27
28	---	---	539.800	540.338	540.307	540.207	540.014	539.763	539.635	539.567	---	---	28
29	---		539.843E	540.319	540.303	540.200	540.008	539.769	539.630	539.568	---	---	29
30	---		539.886E	540.303	540.301	540.209	540.008	539.785	539.633	539.561	---	---	30
31	---		539.928E		540.298		540.002	539.759		539.560		---	31
MEAN	---	---	539.705	540.317	540.239	540.265	540.114	539.859	539.684	539.601	---	---	MEAN
MAX	---	---	539.928	540.462	540.307	540.303	540.217	539.987	539.750	539.642	---	---	MAX
MIN	---	---	539.501	539.972	540.178	540.200	540.002	539.759	539.629	539.560	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 540.462 ON APR 15
MINIMUM DAILY, 539.501 ON MAR 2
MAXIMUM INSTANTANEOUS,
540.478 AT 00:15 CST ON APR 15

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 50 N
LONG 100 24 40 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DENNIS LAKE NEAR MALONTON - STATION NO. 05SB801

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	286.753E	286.753	286.621E	286.486E	286.399E	---	---	1
2	---	---	---	---	---	286.756E	286.755E	286.614	286.484E	286.407E	---	---	2
3	---	---	---	---	---	286.758E	286.758E	286.610E	286.483E	286.415E	---	---	3
4	---	---	---	---	---	286.761	286.760E	286.607E	286.481	286.423	---	---	4
5	---	---	---	---	---	286.764E	286.763	286.604	286.456E	286.423E	---	---	5
6	---	---	---	---	---	286.768E	286.766E	286.601E	286.431	286.423E	---	---	6
7	---	---	---	---	---	286.741	286.750E	286.599E	286.438E	286.423	---	---	7
8	---	---	---	---	---	286.738E	286.743	286.596E	286.444E	286.423E	---	---	8
9	---	---	---	---	---	286.734E	286.740E	286.594	286.451	286.423E	286.417	---	9
10	---	---	---	---	---	286.731	286.738E	286.591E	286.448E	286.423E	---	---	10
11	---	---	---	---	---	286.739E	286.735E	286.587E	286.441E	286.423	---	---	11
12	---	---	---	---	---	286.746E	286.733	286.584	286.436E	286.423E	---	---	12
13	---	---	---	---	---	286.754E	286.723E	286.584E	286.431	286.422	---	---	13
14	---	---	---	---	---	286.762	286.713E	286.584E	286.421E	286.423	---	---	14
15	---	---	---	---	---	286.762E	286.704	286.584E	286.411E	286.423E	---	---	15
16	---	---	---	---	---	286.762E	286.704E	286.584	286.401	286.423E	---	---	16
17	---	---	---	---	---	286.762	286.704E	---	286.408E	286.424E	---	---	17
18	---	---	---	---	---	286.764E	286.704E	---	286.418E	286.424	---	---	18
19	---	---	---	---	---	286.767E	286.704	---	286.424E	286.424E	---	---	19
20	---	---	---	---	286.775	286.739E	286.694E	---	286.432	286.424E	---	---	20
21	---	---	---	---	286.775E	286.732	286.684	---	286.428E	286.424	---	---	21
22	---	---	---	---	286.775E	286.739E	286.704	---	286.425E	---	---	---	22
23	---	---	---	---	286.775E	286.745E	286.691E	---	286.422	---	---	---	23
24	---	---	---	---	286.775	286.752	286.679E	---	286.412E	---	---	---	24
25	---	---	---	---	286.770E	286.750E	286.666E	286.502	286.402E	---	---	---	25
26	---	---	---	---	286.765E	286.747E	286.654	286.501E	286.392E	---	---	---	26
27	---	---	---	---	286.760	286.745E	286.650E	286.500	286.382	---	---	---	27
28	---	---	---	---	286.758E	286.743	286.647E	286.498E	286.385E	---	---	---	28
29	---		---	---	286.756E	286.748E	286.644	286.493E	286.388E	---	---	---	29
30	---		---	---	286.753E	286.750E	286.636E	286.490	286.392	---	---	---	30
31	---		---		286.751		286.629E	286.488E		---		---	31
MEAN	---	---	---	---	---	286.746	286.707	---	286.428	---	---	---	MEAN
MAX	---	---	---	---	---	286.762	286.763	---	286.485	---	---	---	MAX
MIN	---	---	---	---	---	286.731	286.629	---	286.382	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 34 46 N
LONG 97 20 38 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DEVILS CREEK NEAR LISAU - STATION NO. 05QJ016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	9.90 B	0.182	0.092	0.100	0.111	0.021E	0.041E	---	---	1
2	---	---	0 B	8.81 B	0.173	0.084	0.114	0.098E	0.021E	0.043E	---	---	2
3	---	---	0 B	9.61 B	0.157	0.113	0.178	0.070E	0.021E	0.046E	---	---	3
4	---	---	0 B	10.7 B	0.182	0.114	0.543	0.048A	0.022E	0.043E	---	---	4
5	---	---	0 B	13.2 B	0.184	0.181	0.832	0.033	0.022E	0.040A	---	---	5
6	---	---	0.018B	11.9 B	0.128	0.310	0.670	0.024	0.022A	0.037E	---	---	6
7	---	---	0.071B	9.06 B	0.124	0.262	0.603	0.018	0.036E	0.034E	---	---	7
8	---	---	0.170B	7.22 B	0.134	0.203	0.436	0.016	0.035E	0.031E	---	---	8
9	---	---	0.260B	5.11 B	0.136	0.173	0.305	0.015	0.042E	0.034E	---	---	9
10	---	---	0.370B	4.82 B	0.118	0.153	0.228A	0.018	0.050E	0.030E	---	---	10
11	---	---	0.480B	3.03 B	0.117	0.122	0.178A	0.020	0.050E	0.027E	---	---	11
12	---	---	0.840B	2.54 B	0.118	0.102	0.140A	0.017	0.048E	0.025E	---	---	12
13	---	---	0.560B	0.790B	0.130	0.103	0.110A	0.015	0.050E	0.023E	---	---	13
14	---	---	0.488B	0.290B	0.143	0.095	0.085A	0.013	0.053E	0.022E	---	---	14
15	---	---	0.400B	0.588B	0.182	0.082	0.069A	0.012	0.053E	0.022E	---	---	15
16	---	---	0.340B	0.618B	0.181	0.084	0.083	0.013	0.054E	0.022E	---	---	16
17	---	---	0.280B	0.594B	0.183	0.078	0.063	0.016	0.055E	0.022E	---	---	17
18	---	---	0.190B	0.523B	0.138	0.089	0.060	0.017	0.057E	0.022E	---	---	18
19	---	---	0.150B	0.448	0.125	0.058	0.060	0.018	0.057E	0.022E	---	---	19
20	---	---	0.100B	0.454	0.134	0.174	0.035	0.025	0.056E	0.022E	---	---	20
21	---	---	0.061B	0.451	0.114	0.414	0.031	0.034	0.057E	0.022E	---	---	21
22	---	---	0.034B	0.422	0.110	0.470	0.027	0.030	0.057E	0.022E	---	---	22
23	---	---	0.020B	0.362	0.107	0.415	0.026	0.028	0.057E	0.022E	---	---	23
24	---	---	0.014B	0.309	0.102	0.334	0.026	0.037	0.054E	0.024E	---	---	24
25	---	---	0.018B	0.288	0.099	0.242	0.026	0.040	0.053E	0.023E	---	---	25
26	---	---	0.016B	0.277	0.094	0.249	0.026	0.033	0.040A	0.022E	---	---	26
27	---	---	0.018B	0.281	0.089	0.200	0.024	0.028	0.038E	0.022E	---	---	27
28	---	---	0.018B	0.252	0.093	0.147	0.020	0.025	0.038E	0.022E	---	---	28
29	---		0.071B	0.232	0.098	0.108	0.020	0.022	0.039E	0.022E	---	---	29
30	---		0.378B	0.212	0.094	0.105	0.037	0.019	0.040E	0.022E	---	---	30
31	---		7.25 B		0.088		0.052	0.021A		0.022E	---	---	31
TOTAL	---	---	12.369	103.981	4.015	5.382	5.219	0.837	1.399	0.858	---	---	TOTAL
MEAN	---	---	0.398	3.47	0.130	0.179	0.168	0.030	0.043	0.028	---	---	MEAN
MAX	---	---	7.25	13.2	0.182	0.470	0.832	0.111	0.057	0.046	---	---	MAX
MIN	---	---	0	0.212	0.088	0.089	0.020	0.012	0.021	0.022	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.567
MAXIMUM DAILY, 13.20 ON APR 5
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
16.00 AT 19:23 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 11 40 N
LONG 98 42 50 W
DRAINAGE AREA, 249 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	451
FEB	---	AUG	81.0
MAR	1 080	SEP	112
APR	8 980	OCT	74.1
MAY	347	NOV	---
JUN	465	DEC	---

TOTAL DISCHARGE, 11 600 dam³

DOG LAKE NEAR YOGAR - STATION NO. 05LN005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	28.017E	27.987E	28.096	28.135	28.033	27.924	27.846	---	---	1
2	---	---	---	28.020E	27.985E	28.102	28.143	28.033	27.923	27.849	---	---	2
3	---	---	---	28.023A	28.020E	28.098	28.128	28.032	27.850	27.868	---	---	3
4	---	---	---	28.023A	28.065E	28.109	28.118	28.026	27.887	27.865	---	---	4
5	---	---	---	28.013A	28.075A	28.080	28.109	28.016	27.901	27.828	---	---	5
6	---	---	---	28.003A	28.084	28.072	28.114	28.017	27.878	27.861	---	---	6
7	---	---	---	27.993A	28.082	28.095	28.114	27.997A	27.902	27.872	---	---	7
8	---	---	---	27.983A	28.098	28.091	28.118	27.995E	27.893	27.868	---	---	8
9	---	---	---	27.973A	28.114	28.089	28.119	27.990E	27.894	27.895	---	---	9
10	---	---	---	27.983A	28.089	28.095	28.116	27.985E	27.905	27.871	---	---	10
11	---	---	---	27.953A	28.059	28.098	28.089	27.980E	27.878	27.839	---	---	11
12	---	---	---	27.943A	28.125	28.098	28.112	27.974E	27.875	27.893	---	---	12
13	---	---	---	27.947A	28.098	28.073	28.108	27.968E	27.877	27.892	---	---	13
14	---	---	28.027A	27.963A	28.103	28.077	28.119	27.958E	27.893	27.890	---	---	14
15	---	---	---	27.953A	28.107	28.080	28.116	27.952A	27.887	27.895	---	---	15
16	---	---	---	27.953A	28.102	28.081	28.098	27.985	27.889	27.841	---	---	16
17	---	---	---	27.958A	28.105	28.078	28.098	27.970	27.857	27.850	---	---	17
18	---	---	---	27.963A	28.113	28.083	28.108	27.971	27.888	27.878	---	---	18
19	---	---	---	27.968A	28.118	28.090	28.103	27.893	27.791	27.878	---	---	19
20	---	---	---	27.968A	28.123	28.105	28.102	27.898	27.805	27.863	---	---	20
21	---	---	---	27.971A	28.100	28.105	28.087	27.940	27.830	27.877	---	---	21
22	---	---	---	27.973A	28.118	28.110	28.040	27.938	27.846	27.888	---	---	22
23	---	---	---	27.978A	28.124	28.123	28.085	27.938	27.848	27.876	---	---	23
24	---	---	---	27.976A	28.117	28.134	28.058	27.943	27.852	27.844	---	---	24
25	---	---	---	27.976A	28.123	28.128	28.088	27.948	27.854	27.880	---	---	25
26	---	---	---	27.980A	28.133	28.122	28.084	27.943	27.858	27.870	---	---	26
27	---	---	---	27.980A	28.110	28.129	28.050	27.950	27.864	27.882	---	---	27
28	---	---	---	27.981A	28.081	28.128	28.037	27.962	27.814	27.835	---	---	28
29	---		---	27.982A	28.100	28.125	28.040	27.964	27.844	27.884	---	---	29
30	---		---	27.983A	28.089	28.137	28.035	27.963	27.857	27.883	---	---	30
31	---		---		28.090		28.027	27.938		27.869		---	31
MEAN	---	---	---	27.978	28.092	28.101	28.091	27.971	27.859	27.867	---	---	MEAN
MAX	---	---	---	28.022	28.133	28.137	28.143	28.033	27.924	27.895	---	---	MAX
MIN	---	---	---	27.943	27.987	28.072	28.027	27.893	27.888	27.828	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 28.143 ON JUL 2

MAXIMUM INSTANTANEOUS,
28.216 AT 04:48 CST ON JUN 25

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 02 30 N
LONG 98 36 31 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05QE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.31 B	0	0	0	0	0	0	---	---	1
2	---	---	0 B	2.03 B	0	0	0	0	0	0	---	---	2
3	---	---	0.050B	1.86 B	0	0	0	0	0	0	---	---	3
4	---	---	0.200B	5.11	0	0	0	0	0	0	---	---	4
5	---	---	0.595B	5.38	0	0	0	0	0	0	---	---	5
6	---	---	0.300B	10.2	0	0	0	0	0	0	---	---	6
7	---	---	0.150B	10.1	0	0	0	0	0	0	---	---	7
8	---	---	0.050B	7.13	0	0	0	0	0	0	---	---	8
9	---	---	0.012B	3.32	0	0	0	0	0	0	---	---	9
10	---	---	0.006B	1.23	0	0	0	0	0	0	---	---	10
11	---	---	0.003B	0.596	0	0	0	0	0	0	---	---	11
12	---	---	0.275B	0.367	0	0	0	0	0	0	---	---	12
13	---	---	0.628B	0.2798	0	0	0	0	0	0	---	---	13
14	---	---	0.444B	0.2348	0	0	0	0	0	0	---	---	14
15	---	---	0.200B	0.187B	0	0	0	0	0	0	---	---	15
16	---	---	0.100B	0.153B	0	0	0	0	0	0	---	---	16
17	---	---	0.075B	0.123B	0	0	0	0	0	0	---	---	17
18	---	---	0.050B	0.08B	0	0	0	0	0	0	---	---	18
19	---	---	0.025B	0.072	0	0	0	0	0	0	---	---	19
20	---	---	0.010B	0.052	0	0	0	0	0	0	---	---	20
21	---	---	0.005B	0.026	0	0	0	0	0	0	---	---	21
22	---	---	0 B	0.014	0	0.012	0	0	0	0	---	---	22
23	---	---	0 B	0.008	0	0.017	0	0	0	0	---	---	23
24	---	---	0.010B	0.003	0	0.002	0	0	0	0	---	---	24
25	---	---	0.020B	0.003	0	0	0	0	0	0	---	---	25
26	---	---	0.010B	0.003	0	0	0	0	0	0	---	---	26
27	---	---	0 B	0.001	0	0	0	0	0	0	---	---	27
28	---	---	0.020B	0	0	0	0	0	0	0	---	---	28
29	---		0.050B	0	0	0	0	0	0	0	---	---	29
30	---		0.150B	0	0	0	0	0	0	0	---	---	30
31	---		3.06 B		0		0	0		0		---	31
TOTAL	---	---	6.503	53.663	0	0.031	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.210	1.79	0	0.001	0	0	0	0	---	---	MEAN
MAX	---	---	3.06	10.2	0	0.017	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.248
MAXIMUM DAILY, 10.2 ON APR 6
MINIMUM DAILY, 0 ON MAR 1
MAXIMUM INSTANTANEOUS,
11.4 AT 01:06 CST ON APR 7

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 32 N
LONG 97 17 20 W

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	562	SEP	0
APR	4 640	OCT	0
MAY	0	NOV	---
JUN	2.68	DEC	---

TOTAL DISCHARGE, 5 200 dam³

DUCK RIVER AT COWAN - STATION NO. 05LG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1458	0.1178	5.10E	2.42	0.798	0.374	0.152	0.378	---	---	1
2	---	---	0.1458	0.1268	7.81E	2.28	2.02	0.351	0.123	0.347	---	---	2
3	---	---	0.1438	0.1278	6.95A	3.42	7.54	0.345	0.159	0.363	---	---	3
4	---	---	0.1438	0.1248	8.07	5.49	9.05	0.337	0.138	0.384	---	---	4
5	---	---	0.1438	0.1188	6.16	4.73	5.83	0.320	0.133	0.357	---	---	5
6	---	---	0.1408	0.1258	6.78	3.58	4.11	0.322	0.227	0.330	---	---	6
7	---	---	0.1408	0.1358	6.60	2.80	2.72	0.327	0.340	0.321	---	---	7
8	---	---	0.1408	0.1478	6.97	3.38	2.14	0.270	0.203	0.310	---	---	8
9	---	---	0.1388	0.1898	5.47	3.23	1.78	0.281	0.231	0.328	---	---	9
10	---	---	0.1388	0.2188	15.2	2.76	1.57	0.294	0.456	0.459	---	---	10
11	---	---	0.1368	0.2408	11.4	2.32	2.35	0.232	0.415	0.542	---	---	11
12	---	---	0.1368	0.2438	8.65	1.87	2.23	0.207	0.306	0.551	---	---	12
13	---	---	0.1368	0.2238	3.11	2.67	1.63	0.268	0.248	0.513	---	---	13
14	---	---	0.1338	0.1858	4.61	2.73	1.17	0.302	0.179	0.482	---	---	14
15	---	---	0.1338	0.1898	4.34	3.47	1.05	0.247	0.207	0.456	---	---	15
16	---	---	0.1318	0.1638	4.26	3.43	2.68	0.225	0.181	0.430	---	---	16
17	---	---	0.1318	0.2128	6.89	2.59	3.09	0.223	0.180	0.441	---	---	17
18	---	---	0.1308	0.2498	14.7	1.96	2.01	0.135	0.213	0.358	---	---	18
19	---	---	0.1348	0.2948	20.3	1.63	1.48	0.108	0.202	0.344	---	---	19
20	---	---	0.1448	0.5018	15.4	1.47	1.14	0.083	0.241	0.415	---	---	20
21	---	---	0.1538	0.8338	15.3	1.32	0.950	0.105	0.269	0.426	---	---	21
22	---	---	0.1628	1.27 B	13.2	1.11	0.855	0.095	0.279	0.367	---	---	22
23	---	---	0.1648	8.20 B	9.80	1.13	0.689	0.079	0.279	0.354	---	---	23
24	---	---	0.1678	18.4 B	7.54	1.02	0.618	0.077	0.274	0.353	---	---	24
25	---	---	0.1518	11.9	5.58	1.21	0.535	0.104	0.232	0.349	---	---	25
26	---	---	0.1428	10.8	4.80	1.39	0.581	0.116	0.249	0.329	---	---	26
27	---	---	0.1288	7.27 A	4.49	1.24	0.545	0.114	0.229	0.318	---	---	27
28	---	---	0.1228	4.97 E	3.98	1.06	0.452	0.138	0.276	0.312	---	---	28
29	---		0.1248	3.67 E	3.37	0.902	0.410	0.188	0.409	0.295	---	---	29
30	---		0.1208	3.36 E	2.81	0.806	0.384	0.150	0.384	0.285	---	---	30
31	---		0.1208		2.65		0.387	0.153		0.283		---	31
TOTAL	---	---	4.324	74.639	242.11	69.518	63.770	5.554	7.454	11.788	---	---	TOTAL
MEAN	---	---	0.139	2.49	7.81	2.32	2.06	0.211	0.248	0.380	---	---	MEAN
MAX	---	---	0.167	18.4	20.3	5.49	9.05	0.374	0.456	0.551	---	---	MAX
MIN	---	---	0.120	0.117	2.65	0.806	0.384	0.077	0.123	0.283	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.96
MAXIMUM DAILY, 20.3 ON MAY 19
MINIMUM DAILY, 0.077 ON AUG 24
MAXIMUM INSTANTANEOUS,
27.78 AT 12:19 CST ON APR 24

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 50 N
LONG 100 39 00 W
DRAINAGE AREA, 223 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	5 510
FEB	---	AUG	868
MAR	374	SEP	644
APR	5 450	OCT	1 020
MAY	20 900	NOV	---
JUN	5 010	DEC	---

TOTAL DISCHARGE, 41 500 dam³

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1408	1.34 B	0.098	1.98	---	---	---	---	---	---	1
2	---	---	0.1418	2.85 B	0.169	2.12	---	---	---	---	---	---	2
3	---	---	0.1398	4.82 B	0.294	2.51	---	---	---	---	---	---	3
4	---	---	0.1398	6.85 B	0.382	3.08	---	---	---	---	---	---	4
5	---	---	0.1408	9.85 B	0.392	3.59	---	---	---	---	---	---	5
6	---	---	0.1708	15.0 B	0.451	1.37	---	---	---	---	---	---	6
7	---	---	0.1808	24.4 B	0.480	0.388	---	---	---	---	---	---	7
8	---	---	0.1788	28.1 B	0.646	0.279	---	---	---	---	---	---	8
9	---	---	0.1828	24.9 B	0.758	0.272	---	---	---	---	---	---	9
10	---	---	0.1858	23.0	2.35	0.211	---	---	---	---	---	---	10
11	---	---	0.1858	16.5	3.89	0.269	---	---	---	---	---	---	11
12	---	---	0.1788	15.3	4.41	0.303	---	---	---	---	---	---	12
13	---	---	0.1788	10.7	4.60	0.230	---	---	---	---	---	---	13
14	---	---	0.1728	7.84 E	3.65	0.336	---	---	---	---	---	---	14
15	---	---	0.1708	4.81 E	2.72	0.391	---	---	---	---	---	---	15
16	---	---	0.1688	1.02 E	1.81	0.284	---	---	---	---	---	---	16
17	---	---	0.1678	0.122	1.37	0.196	---	---	---	---	---	---	17
18	---	---	0.1678	0.017	1.14	0.146	---	---	---	---	---	---	18
19	---	---	0.1658	0.083	1.69	0.139	---	---	---	---	---	---	19
20	---	---	0.1678	0.631	2.34	0.105	---	---	---	---	---	---	20
21	---	---	0.1638	0.456	2.18	0.088	---	---	---	---	---	---	21
22	---	---	0.1588	0.241	1.84	0.106	---	---	---	---	---	---	22
23	---	---	0.1568	0.283	1.71	1.18	---	---	---	---	---	---	23
24	---	---	0.1508	0.448	1.53	0.269	---	---	---	---	---	---	24
25	---	---	0.1428	0.848	1.42	0.257	---	---	---	---	---	---	25
26	---	---	0.1488	0.889	1.46	1.88	---	---	---	---	---	---	26
27	---	---	0.1498	0.877	1.52	1.85	---	---	---	---	---	---	27
28	---	---	0.1478	0.328	1.59	1.80	---	---	---	---	---	---	28
29	---		0.1508	0.154	1.71	1.04	---	---	---	---	---	---	29
30	---		0.3008	0.048	1.81	0.784	---	---	---	---	---	---	30
31	---		0.4208		1.92		---	---	---	---	---	---	31
TOTAL	---	---	5.392	200.184	62.210	27.001	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.174	6.67	2.68	0.900	---	---	---	---	---	---	MEAN
MAX	---	---	0.420	28.1	4.60	3.59	---	---	---	---	---	---	MAX
MIN	---	---	0.139	0.017	0.083	0.088	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.33
MAXIMUM DAILY, 28.18 ON APR 6
MINIMUM DAILY, 0.017 ON APR 18
MAXIMUM INSTANTANEOUS,
30.38 AT 06:15 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 13 00 N
LONG 97 32 00 W
DRAINAGE AREA, 384 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	466	SEP	---
APR	17 300	OCT	---
MAY	4 610	NOV	---
JUN	2 330	DEC	---

TOTAL DISCHARGE, 24 800 dam³

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.00 B	0.00 B	2.52	0.929	2.72	0.144	0.003	0.017	---	---	1
2	---	---	0.00 B	0.00 B	3.13	0.977	2.67	0.112	0.006	0.050	---	---	2
3	---	---	0.00 B	0.00 B	3.08	1.49	1.54	0.094	0.001	0.052	---	---	3
4	---	---	0.00 B	0.00 B	2.02	5.53	1.63	0.074	0.001	0.051	---	---	4
5	---	---	0.00 B	0.0028	1.84	4.32	1.38	0.063	0.020	0.072	---	---	5
6	---	---	0.00	0.0108	1.70	2.53	0.933	0.043	0.021	0.080	---	---	6
7	---	---	0.00	0.0508	1.33	1.77	0.645	0.031	0.039	0.059	---	---	7
8	---	---	0.00	0.2608	1.20	1.83	0.540	0.023	0.077	0.051	---	---	8
9	---	---	0.00	0.5608	1.26	1.85	0.422	0.022	0.071	0.039	---	---	9
10	---	---	0.00	0.4508	1.28	1.23	1.01	0.020	0.078	0.039	---	---	10
11	---	---	0.00	0.3088	1.05	0.957	1.84	0.020	0.070	0.119	---	---	11
12	---	---	0.00	0.0258	1.02	0.747	1.24	0.022	0.065	0.150	---	---	12
13	---	---	0.00	0.00 B	1.19	0.943	0.618	0.021	0.068	0.103	---	---	13
14	---	---	0.00	0.00 B	1.12	1.03	0.510	0.020	0.055	0.083	---	---	14
15	---	---	0.00	0.00 B	0.989	1.47	0.381	0.020	0.042	0.061	---	---	15
16	---	---	0.00	0.00 B	1.68	1.36	0.773	0.018	0.053	0.087	---	---	16
17	---	---	0.00	0.00 B	4.64	0.784	0.735	0.019	0.023	0.051	---	---	17
18	---	---	0.00	0.00 B	11.4	0.579	0.478	0.018	0.021	0.045	---	---	18
19	---	---	0.00	0.8408	11.9	0.481	0.461	0.015	0.025	0.038	---	---	19
20	---	---	0.00	4.27 B	5.85	0.493	0.331	0.015	0.037	0.037	---	---	20
21	---	---	0.00	28.2 B	5.34	0.482	0.308	0.017	0.044	0.038	---	---	21
22	---	---	0.00	42.0 B	4.00	0.456	0.284	0.018	0.041	0.044	---	---	22
23	---	---	0.00	27.4 B	3.17	0.516	0.278	0.018	0.038	0.035	---	---	23
24	---	---	0.00	16.7	2.63	0.427	0.234	0.014	0.031	0.027	---	---	24
25	---	---	0.00	15.0	1.94	1.38	0.225	0.015	0.024	0.025	---	---	25
26	---	---	0.00	15.6	1.58	1.26	0.229	0.018	0.019	0.025	---	---	26
27	---	---	0.00	9.15	1.55	0.831	0.240	0.015	0.015	0.024	---	---	27
28	---	---	0.00	4.79	1.31	0.570	0.202	0.010	0.014	0.024	---	---	28
29	---		0.00	3.10	1.15	0.491	0.172	0.004	0.014	0.024	---	---	29
30	---		0.00	2.48	1.12	1.05	0.226	0.001	0.016	0.025	---	---	30
31	---		0.00		1.05		0.180	0.001		0.024		---	31
TOTAL	---	---	0	176.196	86.039	38.535	23.425	0.948	1.030	1.589	---	---	TOTAL
MEAN	---	---	0	5.87	2.78	1.28	0.756	0.031	0.034	0.051	---	---	MEAN
MAX	---	---	0	42.0	11.9	5.53	2.72	0.144	0.077	0.150	---	---	MAX
MIN	---	---	0	0	0.989	0.427	0.172	0.001	0.001	0.017	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.34
MAXIMUM DAILY, 42.0B ON APR 22
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 08 30 N
LONG 99 55 20 W
DRAINAGE AREA, 311 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 020
FEB	---	AUG	81.7
MAR	0	SEP	89.0
APR	15 200	OCT	138
MAY	7 430	NOV	---
JUN	3 330	DEC	---

TOTAL DISCHARGE, 28 300 dam³

ELGIN CREEK NEAR SOURIS - STATION NO. 05MG012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.00 B	7.58 B	0.035	0.032	0	0	0	0	---	---	1
2	---	---	0.00 B	8.10 B	0.083	0.029	0	0	0	0	---	---	2
3	---	---	0.00 B	8.51 B	0.087	0.024	0	0	0	0	---	---	3
4	---	---	0.00 B	8.57 B	0.076	0.018	0	0	0	0	---	---	4
5	---	---	0.00 B	7.11 B	0.086	0.013	0	0	0	0	---	---	5
6	---	---	0.00 B	7.25	0.052	0.010	0	0	0	0	---	---	6
7	---	---	0.00 B	5.81	0.045	0.008	0	0	0	0	---	---	7
8	---	---	0.00 B	4.47	0.038	0.006	0	0	0	0	---	---	8
9	---	---	0.00 B	3.13	0.034	0.004	0	0	0	0	---	---	9
10	---	---	0.00 B	2.26	0.033	0.003	0	0	0	0	---	---	10
11	---	---	0.00 B	1.72	0.028	0.002	0	0	0	0	---	---	11
12	---	---	0.00 B	1.38	0.029	0.001	0	0	0	0	---	---	12
13	---	---	0.00 B	0.962	0.037	0.001	0	0	0	0	---	---	13
14	---	---	0.00 B	0.778	0.032	0	0	0	0	0	---	---	14
15	---	---	0.00 B	0.761	0.034	0	0	0	0	0	---	---	15
16	---	---	0.00 B	0.553	0.040	0	0	0	0	0	---	---	16
17	---	---	0.00 B	0.581	0.041	0	0	0	0	0	---	---	17
18	---	---	0.00 B	0.478	0.042	0	0	0	0	0	---	---	18
19	---	---	0.00 B	0.420	0.048	0	0	0	0	0	---	---	19
20	---	---	0.00 B	0.512	0.048	0	0	0	0	0	---	---	20
21	---	---	0.00 B	0.373	0.051	0	0	0	0	0	---	---	21
22	---	---	0.00 B	0.292	0.050	0	0	0	0	0	---	---	22
23	---	---	0.00 B	0.242	0.050	0	0	0	0	0	---	---	23
24	---	---	0.00 B	0.234	0.044	0	0	0	0	0	---	---	24
25	---	---	0.00 B	0.221	0.041	0	0	0	0	0	---	---	25
26	---	---	0.00 B	0.198	0.038	0	0	0	0	0	---	---	26
27	---	---	0.00 B	0.185	0.041	0	0	0	0	0	---	---	27
28	---	---	0.0058	0.170	0.045	0	0	0	0	0	---	---	28
29	---		0.0208	0.148	0.040	0	0	0	0	0	---	---	29
30	---		0.0808	0.117	0.036	0	0	0	0	0	---	---	30
31	---		1.00 B		0.036		0	0		0		---	31
TOTAL	---	---	1.085	73.112	1.395	0.149	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.035	2.44	0.045	0.005	0	0	0	0	---	---	MEAN
MAX	---	---	1.00	8.57	0.087	0.032	0	0	0	0	---	---	MAX
MIN	---	---	0	0.117	0.036	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.309
MAXIMUM DAILY, 8.57B ON APR 4
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
8.40 AT 21:03 CST ON APR 5

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 26 N
LONG 100 14 05 W
DRAINAGE AREA, 1 180 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	93.7	SEP	0
APR	6 320	OCT	0
MAY	121	NOV	---
JUN	12.9	DEC	---

TOTAL DISCHARGE, 6 550 dam³

ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK - STATION NO. 05OGOO5

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	9.50 B	0.030	0	---	---	---	---	---	---	1
2	---	---	0 B	8.70 B	0.036	0	---	---	---	---	---	---	2
3	---	---	0 B	11.9 B	0.029	0	---	---	---	---	---	---	3
4	---	---	0.1008	14.3 B	0.027	0	---	---	---	---	---	---	4
5	---	---	0.2008	11.7	0.022	0	---	---	---	---	---	---	5
6	---	---	0.1508	9.67	0.014	0	---	---	---	---	---	---	6
7	---	---	0.1008	6.85	0.011	0	---	---	---	---	---	---	7
8	---	---	0.0508	4.50	0.010	0	---	---	---	---	---	---	8
9	---	---	0 B	3.10	0.005	0	---	---	---	---	---	---	9
10	---	---	0 B	1.78	0.001	0	---	---	---	---	---	---	10
11	---	---	0.1008	1.04	0.003	0	---	---	---	---	---	---	11
12	---	---	0.5008	0.715	0.009	0	---	---	---	---	---	---	12
13	---	---	0.4798	0.408	0.010	0	---	---	---	---	---	---	13
14	---	---	0.4598	0.427	0.058	0	---	---	---	---	---	---	14
15	---	---	0.4398	0.284	0.177	0	---	---	---	---	---	---	15
16	---	---	0.4248	0.159	0.108	0	---	---	---	---	---	---	16
17	---	---	0.4108	0.112	0.145	0	---	---	---	---	---	---	17
18	---	---	0.3988	0.086	0.131	0	---	---	---	---	---	---	18
19	---	---	0.3818	0.073	0.116	0	---	---	---	---	---	---	19
20	---	---	0.3678	0.137	0.103E	0	---	---	---	---	---	---	20
21	---	---	0.3528	0.121	0.090	0	---	---	---	---	---	---	21
22	---	---	0.3388	0.084	0.082	0.289	---	---	---	---	---	---	22
23	---	---	0.3128	0.100	0.082	1.21	---	---	---	---	---	---	23
24	---	---	0.2898	0.045	0.040	0.655E	---	---	---	---	---	---	24
25	---	---	0.3528	0.023	0.023	0.338E	---	---	---	---	---	---	25
26	---	---	0.3008	0.047	0.013	0.124E	---	---	---	---	---	---	26
27	---	---	0.2678	0.034	0.007	0.115E	---	---	---	---	---	---	27
28	---	---	0.2218	0.035	0.002	0.107E	---	---	---	---	---	---	28
29	---		0.2108	0.039	0	0.038E	---	---	---	---	---	---	29
30	---		10 I B	0.031	0	0.089E	---	---	---	---	---	---	30
31	---		9.88 B		0		---	---	---	---	---	---	31
TOTAL	---	---	27.176	85.780	1.376	3.045	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.877	2.86	0.044	0.102	---	---	---	---	---	---	MEAN
MAX	---	---	10.1	14.3	0.177	1.21	---	---	---	---	---	---	MAX
MIN	---	---	0	0.023	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.862
MAXIMUM DAILY, 14.3B ON APR 4
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
17.6B AT 02:15 CST ON APR 4

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 42 N
LONG 97 58 57 W
DRAINAGE AREA, 673 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	2 350	SEP	---
APR	7 410	OCT	---
MAY	118	NOV	---
JUN	263	DEC	---

TOTAL DISCHARGE, 10 100 dam³

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OGOO6

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.00 B	0	0	---	---	---	---	---	---	1
2	---	---	0 B	3.77 B	0	0	---	---	---	---	---	---	2
3	---	---	0 B	4.86 B	0	0	---	---	---	---	---	---	3
4	---	---	0.0508	6.07 B	0	0	---	---	---	---	---	---	4
5	---	---	0.1018	5.35 B	0	0	---	---	---	---	---	---	5
6	---	---	0.0758	4.33	0	0	---	---	---	---	---	---	6
7	---	---	0.0508	3.06	0	0	---	---	---	---	---	---	7
8	---	---	0.0258	2.40	0	0	---	---	---	---	---	---	8
9	---	---	0 B	1.70	0	0	---	---	---	---	---	---	9
10	---	---	0 B	1.08	0	0	---	---	---	---	---	---	10
11	---	---	0.0508	0.725	0	0	---	---	---	---	---	---	11
12	---	---	0.2498	0.536	0	0	---	---	---	---	---	---	12
13	---	---	0.2368	0.3078	0	0	---	---	---	---	---	---	13
14	---	---	0.2218	0.2378	0	0	---	---	---	---	---	---	14
15	---	---	0.2068	0.1868	0	0	---	---	---	---	---	---	15
16	---	---	0.1938	0.0988	0	0	---	---	---	---	---	---	16
17	---	---	0.1868	0.0258	0	0	---	---	---	---	---	---	17
18	---	---	0.1788	0.023	0	0	---	---	---	---	---	---	18
19	---	---	0.1668	0.021	0	0	---	---	---	---	---	---	19
20	---	---	0.1518	0.017	0	0	---	---	---	---	---	---	20
21	---	---	0.1418	0.010	0	0	---	---	---	---	---	---	21
22	---	---	0.1318	0.005	0	0.481	---	---	---	---	---	---	22
23	---	---	0.1178	0.012	0	0.482	---	---	---	---	---	---	23
24	---	---	0.1118	0.002	0	0.151	---	---	---	---	---	---	24
25	---	---	0.1818	0.001	0	0.027	---	---	---	---	---	---	25
26	---	---	0.1178	0.001	0	0.006	---	---	---	---	---	---	26
27	---	---	0.1118	0	0	0.002	---	---	---	---	---	---	27
28	---	---	0.1078	0	0	0	---	---	---	---	---	---	28
29	---		0.1038	0	0	0	---	---	---	---	---	---	29
30	---		4.50 B	0	0	0	---	---	---	---	---	---	30
31	---		4.25 B		0		---	---	---	---	---	---	31
TOTAL	---	---	11.984	38.786	0	1.161	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.387	1.29	0	0.039	---	---	---	---	---	---	MEAN
MAX	---	---	4.50	6.07	0	0.481	---	---	---	---	---	---	MAX
MIN	---	---	0	0	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.426
MAXIMUM DAILY, 6.07B ON APR 4
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 54 N
LONG 98 00 30 W
DRAINAGE AREA, 484 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	1 060	SEP	---
APR	3 350	OCT	---
MAY	0	NOV	---
JUN	100	DEC	---

TOTAL DISCHARGE, 4 490 dam³

SPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.0 B	0 B	1.04	0.883	0.249	0.018	0	0.006	---	---	1
2	---	---	0.0 B	0 B	0.958	0.861	0.158	0.014	0	0.004	---	---	2
3	---	---	0.0 B	0 B	0.876	0.845	0.181	0.015	0	0.004	---	---	3
4	---	---	0.0 B	0 B	0.775	0.802	0.150	0.015	0	0.003	---	---	4
5	---	---	0.0 B	0 B	0.728	0.751	0.125	0.014	0	0.003	---	---	5
6	---	---	0.0 B	0.0018	0.684	0.737	0.134	0.013	0.015	0.003	---	---	6
7	---	---	0.0 B	0.0038	0.613	0.730	0.163	0.013	0.010	0.003	---	---	7
8	---	---	0.0 B	0.0288	0.689	0.743	0.148	0.010	0.012	0.003	---	---	8
9	---	---	0.0 B	0.1938	0.817	0.719	0.148	0.009	0.009	0.003	---	---	9
10	---	---	0.0 B	0.4398	0.855	0.707	0.221	0.008	0.020	0.003	---	---	10
11	---	---	0.0 B	0.8538	0.783	0.661	0.204	0.007	0.005	0.004	---	---	11
12	---	---	0.0 B	1.12 B	0.825	0.640	0.179	0.005	0.003	0.004	---	---	12
13	---	---	0.0 B	1.38 B	1.15	0.611	0.144	0.002	0.001	0.003	---	---	13
14	---	---	0.0 B	1.85 B	1.21	0.582	0.106	0.002	0.001	0.003	---	---	14
15	---	---	0.0 B	2.01 B	1.14	0.494	0.073	0.001	0.002	0.002	---	---	15
16	---	---	0.0 B	1.54 B	1.15	0.424	0.110	0	0.001	0.002	---	---	16
17	---	---	0.0 B	1.45 B	1.23	0.389	0.091	0	0.001	0.003	---	---	17
18	---	---	0.0 B	1.12	1.32	0.387	0.048	0	0.001	0.003	---	---	18
19	---	---	0.0 B	0.996	1.63	0.367	0.026	0	0.002	0.003	---	---	19
20	---	---	0.0 B	0.842	1.72	0.350	0.025	0	0.002	0.003	---	---	20
21	---	---	0.0 B	1.09	1.69	0.322	0.018	0	0.002	0.002	---	---	21
22	---	---	0.0 B	0.819	1.58	0.398	0.013	0	0.003	0.002	---	---	22
23	---	---	0.0 B	0.947	1.52	0.370	0.012	0	0.003	0.002	---	---	23
24	---	---	0.0 B	1.14	1.46	0.298	0.009	0	0.003	0.003	---	---	24
25	---	---	0.0 B	1.38	1.37	0.271	0.010	0	0.003	0.003	---	---	25
26	---	---	0.0 B	1.38	1.38	0.235	0.012	0	0.003	0.003	---	---	26
27	---	---	0.0 B	1.27	1.27	0.181	0.014	0	0.002	0.004	---	---	27
28	---	---	0.0 B	1.21	1.18	0.132	0.012	0	0.002	0.004	---	---	28
29	---		0.0 B	1.21	1.06	0.191	0.011	0	0.001	0.004	---	---	29
30	---		0.0 B	1.17	0.994	0.269	0.017	0	0.003	0.004	---	---	30
31	---		0.0 B		0.937		0.020	0		0.004		---	31
TOTAL	---	---	0	25.421	34.614	15.310	2.880	0.168	0.110	0.108	---	---	TOTAL
MEAN	---	---	0	0.847	1.12	0.510	0.093	0.005	0.004	0.003	---	---	MEAN
MAX	---	---	0	2.01	1.72	0.883	0.249	0.018	0.020	0.006	---	---	MAX
MIN	---	---	0	0	0.613	0.132	0.009	0	0	0.002	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.321
MAXIMUM DAILY, 2.018 ON APR 15
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
2.698 AT 01:56 CST ON APR 15

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 44 28 N
LONG 99 19 50 W
DRAINAGE AREA, 389 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	249
FEB	---	AUG	12.6
MAR	0	SEP	9.50
APR	2 200	OCT	8.64
MAY	2 990	NOV	---
JUN	1 320	DEC	---

TOTAL DISCHARGE, 8 790 dam³

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	8.268	10.6 B	8.468	10.8	14.8	78.1	125	147	124	39.4	49.4	37.88	1
2	8.328	10.1 B	8.408	10.5	19.4	81.3	126	150	98.9	43.2	42.8	37.68	2
3	8.198	10.7 B	8.358	10.6	32.6	82.4	130	147	83.0	40.6	83.7	37.48	3
4	8.198	10.8 B	8.368	10.7	43.8	72.5	108	152	68.8	44.5	78.0	37.38	4
5	7.908	11.0 B	8.318	10.8	79.6	78.9	128	141	56.2	43.4	85.5	37.38	5
6	7.788	11.5 B	8.508	11.1	76.9	76.4	139	155	50.6	45.7	61.8	37.28	6
7	7.688	11.1 B	9.398	11.2	78.0	78.3	170	142	85.9	44.4	63.9	37.18	7
8	7.768	10.8 B	7.958	11.5	81.4	76.2	180	137	49.1	49.2	54.6	37.08	8
9	7.768	10.6 B	7.888	11.7	88.2	85.8	182	143	48.9	81.8	50.3	36.98	9
10	7.738	9.918	8.378	11.6	91.9	105	163	134	57.7	52.5	49.5	36.88	10
11	8.638	9.468	8.928	11.6	72.2	130	175	137	48.8	48.7	52.5	36.78	11
12	8.678	9.248	9.298	11.8	76.1	132	171	148	44.8	45.6	59.8	36.78	12
13	8.628	9.058	9.758	11.8	80.2	131	168	138	44.3	47.7	52.5	36.68	13
14	8.618	8.788	10.9 B	12.0	71.7	128	164	140	45.0	48.6	55.1	36.68	14
15	8.898	8.798	10.8	12.1	76.2	108	167	137	41.6	49.3	51.8	36.68	15
16	8.898	8.668	11.0	12.4	83.8	120	176	142	82.9	50.5	62.9	36.58	16
17	8.908	8.518	10.9	12.7	85.8	128	178	141	70.3	50.3	71.5	36.58	17
18	9.378	8.868	10.9	13.0	88.3	132	185	134	79.5	44.8	87.8	36.58	18
19	9.528	8.928	10.9	13.5	78.8	135	183	129	81.2	47.5	80.9	36.58	19
20	9.128	8.838	10.8	13.8	86.9	134	158	125	64.6	57.8	58.5	36.58	20
21	8.678	8.718	10.9	13.4	87.9	134	156	119	38.5	55.4	65.0	36.48	21
22	8.708	8.698	11.0	13.4	85.6	131	167	119	36.7	85.6	69.1	36.48	22
23	8.458	8.508	11.0	13.8	83.6	131	148	118	41.3	58.7	61.4	36.48	23
24	8.638	8.468	10.9	13.7	84.6	126	148	120	40.9	84.9	7.18	36.48	24
25	9.338	8.518	11.0	14.0	87.6	133	155	122	41.8	54.6	5.87	36.48	25
26	9.998	8.478	11.0	14.3	93.3	127	164	121	44.0	52.8	5.12	36.38	26
27	10.8 B	8.378	11.0	14.2	93.6	127	159	121	49.0	48.6	5.19	36.38	27
28	10.5 B	8.878	11.0	14.0	81.1	129	156	120	41.9	45.2	26.2	36.38	28
29	10.2 B		11.0	14.3	72.1	132	147	119	42.4	52.4	50.8	36.38	29
30	10.4 B		11.0	14.5	72.4	124	147	120	38.2	50.7	37.7	36.38	30
31	10.9 B		10.9		72.1		143	124		57.3		36.38	31
TOTAL	275.56	284.76	308.93	375.3	2 318.6	3 385.9	4 788	4 141	1 628.1	1 539.5	1 485.44	1 137.9	TOTAL
MEAN	8.89	9.48	9.97	12.5	74.8	113	154	134	54.3	49.7	49.8	36.7	MEAN
MAX	10.9	11.5	11.0	14.5	93.6	135	176	155	124	61.5	78.0	37.8	MAX
MIN	7.68	8.37	7.88	10.7	14.8	72.5	108	118	35.7	38.4	5.12	36.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 59.3
MAXIMUM DAILY, 176 ON JUL 15
MINIMUM DAILY, 5.12 ON NOV 28
MAXIMUM INSTANTANEOUS,
194 AT 00:23 CST ON JUL 17

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 35 00 N
LONG 98 42 15 W
DRAINAGE AREA, 79 300 km²

B - ICE CONDITIONS

REGULATED SINCE 1934

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	23 800	JUL	414 000
FEB	22 900	AUG	358 000
MAR	28 700	SEP	141 000
APR	32 400	OCT	133 000
MAY	200 000	NOV	128 000
JUN	293 000	DEC	98 300

TOTAL DISCHARGE, 1 870 000 dam³

FALCON LAKE AT FALCON LAKE - STATION NO. 05PD801

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	327.346	327.316	---	---	327.039	---	---	1
2	---	---	---	---	---	---	327.331	327.246	327.118	327.048	---	---	2
3	---	---	---	---	---	327.346	327.326	327.251	327.118	---	---	---	3
4	---	---	---	---	---	---	---	327.251	327.118	327.030	---	---	4
5	---	---	---	---	---	---	---	327.216	327.118	---	---	---	5
6	---	---	---	---	---	---	---	327.231	327.108	---	---	---	6
7	---	---	---	---	---	327.336	---	327.226	---	327.030	---	---	7
8	---	---	---	---	---	---	327.326	327.216	---	---	---	---	8
9	---	---	---	---	---	---	327.341	327.216	---	---	---	---	9
10	---	---	---	---	327.261	327.326	327.323	---	327.098	---	---	---	10
11	---	---	---	---	---	327.326	---	327.200	---	---	---	---	11
12	---	---	---	---	---	327.326	327.318	327.196	327.088	327.020	---	---	12
13	---	---	---	---	---	---	327.308	---	---	---	---	---	13
14	---	---	---	---	---	327.326	327.304	---	---	---	---	---	14
15	---	---	---	---	---	---	327.301	---	327.078	---	---	---	15
16	---	---	---	---	---	327.326	---	---	327.068	---	---	---	16
17	---	---	---	---	---	327.326	327.291	---	---	---	---	---	17
18	---	---	---	---	---	327.331	327.288	---	---	---	---	---	18
19	---	---	---	---	---	327.331	327.275	---	---	---	---	---	19
20	---	---	---	---	---	327.336	327.286	327.142	---	---	---	---	20
21	---	---	---	---	327.366	327.326	---	327.137	---	---	---	---	21
22	---	---	---	---	---	---	---	327.137	---	---	---	---	22
23	---	---	---	---	---	---	327.255	---	---	---	---	---	23
24	---	---	---	---	---	327.326	327.245	---	---	---	---	---	24
25	---	---	---	---	---	327.341	---	---	---	---	---	---	25
26	---	---	---	---	---	327.336	327.255	---	327.029	---	---	---	26
27	---	---	---	---	327.346	327.326	---	---	---	---	---	---	27
28	---	---	---	---	---	---	---	---	---	---	---	---	28
29	---		327.180	---	---	327.326	327.246	---	327.034	---	---	---	29
30	---		---	---	327.346	---	---	---	327.029	---	---	---	30
31	---		---		327.336		---	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 40 45 N
LONG 95 18 45 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

REGULATED SINCE 1963

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

FAMILY LAKE AT LITTLE GRAND RAPIDS - STATION NO. 05RD005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	304.135	304.097	303.967	303.884	303.837	---	---	---	---	---	---	---	1
2	304.133	304.082	303.959	303.878	303.846	---	---	---	---	---	---	---	2
3	304.138	304.076	303.956	303.877	303.847	---	---	---	---	---	---	---	3
4	304.153	304.068	303.954	303.877	303.854	---	---	---	---	---	---	---	4
5	304.158	304.057	303.945	303.870	303.863	---	---	---	---	---	---	---	5
6	304.160	304.050	303.945	303.869	303.863	---	---	---	---	---	---	---	6
7	304.158	304.057	303.961	303.871	303.870	---	---	---	---	---	---	---	7
8	304.159	304.045	303.862	303.873	303.878	304.197A	---	---	---	---	---	---	8
9	304.165	304.048	303.856	303.873	303.886	---	---	---	---	---	---	---	9
10	304.158	304.056	303.856	303.872	303.889	---	---	---	---	---	---	---	10
11	304.138	304.057	303.859	303.870	303.888	---	---	---	---	---	---	---	11
12	304.134	304.055	303.859	303.872	303.876	---	---	---	---	---	---	---	12
13	304.134	304.054	303.858	303.885	304.018	---	---	---	---	---	---	---	13
14	304.133	304.052	303.945	303.858	304.015	---	---	---	---	---	---	---	14
15	304.128	304.047	303.942	303.869	304.027	---	---	---	---	---	---	---	15
16	304.125	304.042	303.939	303.867	304.047	---	---	---	---	---	---	---	16
17	304.122	304.019	303.933	303.870	304.066	---	---	---	---	---	---	---	17
18	304.117	304.018	303.923	303.878	304.085	---	---	---	---	---	---	---	18
19	304.126	304.021	303.919	303.877	304.085	---	---	---	---	---	---	---	19
20	304.128	304.020	303.908	303.882	304.095	---	---	---	---	---	---	---	20
21	304.125	304.018	303.902	303.884	304.117	---	---	---	---	---	---	---	21
22	304.128	304.013	303.898	303.886	304.128	---	---	---	---	---	---	---	22
23	304.125	304.008	303.889	303.888	304.142	---	---	---	---	---	---	---	23
24	304.119	303.998	303.895	303.891	304.145	---	---	---	---	---	---	---	24
25	304.087	303.984	303.902	303.898	304.165	---	---	---	---	---	---	---	25
26	304.085	303.984	303.898	303.905	304.180	---	---	---	---	---	---	---	26
27	304.087	303.982	303.895	303.916	304.179A	---	---	---	---	---	---	---	27
28	304.108	303.988	303.891	303.913	---	---	---	---	---	304.380A	---	---	28
29	304.108		303.893	303.921	---	---	---	---	---	---	---	---	29
30	304.100		303.892	303.928	---	---	---	---	---	---	---	---	30
31	304.095		303.890		---		---	---	---	---	---	---	31
MEAN	304.128	304.035	303.831	303.883	---	---	---	---	---	---	---	---	MEAN
MAX	304.165	304.097	303.969	303.928	---	---	---	---	---	---	---	---	MAX
MIN	304.095	303.988	303.889	303.869	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 02 30 N
LONG 95 27 30 W

A - MANUAL GAUGE

NATURAL FLOW

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

NU

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.910B	0.782	1.02	1.28	0.586	0	0	---	---	1
2	---	---	0 B	1.71 B	0.804	0.992	1.33	0.573	0	0	---	---	2
3	---	---	0 B	2.79 B	0.827	1.01	1.48	0.382	0	0	---	---	3
4	---	---	0 B	4.56 B	0.807	1.05	1.38	0.113	0	0	---	---	4
5	---	---	0 B	4.62 B	1.35	1.03	1.26	0.081	0	0 A	---	---	5
6	---	---	0 B	3.79 B	1.43	1.00	1.20	0.026	0	0	---	---	6
7	---	---	0 B	3.27 B	1.41	0.926	1.18	0.016	0	0	---	---	7
8	---	---	0 B	2.71 B	1.40	0.140	1.18	0.012	0	0	---	---	8
9	---	---	0 B	2.23 A	1.36	0.029A	1.14	0.006	0	0	---	---	9
10	---	---	0 B	1.82 E	1.34	0.015E	1.14	0.004A	0	0	---	---	10
11	---	---	0 B	1.58	1.36	0.015E	0.763	0.004E	0	0.085	---	---	11
12	---	---	0 B	1.31	1.37	0.009E	0.733	0.004E	0	0.092	---	---	12
13	---	---	0 B	0.776	1.37	0.601E	0.885	0.004E	0	0.075	---	---	13
14	---	---	0 B	1.05	1.38	0.433E	0.847	0.003E	0	0.070	---	---	14
15	---	---	0 B	1.02	1.32	0.268E	0.841	0.003E	0	0.029	---	---	15
16	---	---	0 B	0.782	1.29	0.056A	0.828	0.003E	0	0.015	---	---	16
17	---	---	0 B	0.671	1.48	0.069	0.818	0.002E	0	0.008	---	---	17
18	---	---	0 B	0.674	1.55	0.056	0.818	0.002E	0	0.004	---	---	18
19	---	---	0 B	0.980	1.54	0.045	0.829	0.002A	0	0.003	---	---	19
20	---	---	0 B	1.00	1.49	0.146	0.856	0.001E	0	0.003	---	---	20
21	---	---	0 B	0.968	1.40	0.207	0.815	0	0	0.003	---	---	21
22	---	---	0 B	0.829	1.36	1.30	0.800	0	0	0.002	---	---	22
23	---	---	0 B	0.800	1.35	2.08	0.785	0	0	0.002	---	---	23
24	---	---	0 B	0.886	1.34	1.82	0.777	0	0	0.002	---	---	24
25	---	---	0 B	0.857	1.30	1.80	0.783	0	0	0.002	---	---	25
26	---	---	0 B	0.855	1.28	1.58	0.732	0	0	0.002	---	---	26
27	---	---	0 B	0.840	1.26	1.33	0.711	0	0	0.002	---	---	27
28	---	---	0 B	0.822	1.25	1.36	0.682	0	0	0.001	---	---	28
29	---		0 0.048	0.811	1.23	1.17	0.680	0	0	0.001	---	---	29
30	---		0.0298	0.783	1.19	1.21	0.640	0	0	0.001	---	---	30
31	---		0.1328		1.14		0.615	0		0.001		---	31
TOTAL	---	---	0.165	47.139	38.790	32.227	28.688	1.804	0	0.403	---	---	TOTAL
MEAN	---	---	0.005	1.57	1.28	0.741	0.925	0.058	0	0.013	---	---	MEAN
MAX	---	---	0.132	4.62	1.55	2.09	1.48	0.586	0	0.092	---	---	MAX
MIN	---	---	0	0.671	0.782	0.029	0.615	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.572
MAXIMUM DAILY, 4.620 ON APR 5
MINIMUM DAILY, 0.0 ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 42 11 N
LONG 97 01 03 W
DRAINAGE AREA, 632 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1965

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 480
FEB	---	AUG	156
MAR	14.3	SEP	0
APR	4 070	OCT	34.8
MAY	3 440	NOV	---
JUN	1 920	DEC	---

TOTAL DISCHARGE, 12 100 dam³

FISH LAKE NEAR MELEB - STATION NO. 05SB003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	259.845	259.877	259.609	259.492	259.446	259.434	---	1
2	---	---	---	---	---	259.928	259.871	259.584	259.484	259.445	259.435	---	2
3	---	---	---	---	---	259.931	259.874	259.600	259.482	259.449	---	---	3
4	---	---	---	---	---	259.942	259.873	259.600	259.472	259.452	---	---	4
5	---	---	---	---	---	259.936	259.882	259.599	259.466	259.464	---	---	5
6	---	---	---	---	---	---	259.923	259.950	259.592	259.465	259.459	---	6
7	---	---	---	---	---	---	259.907	259.941	259.591	259.464	259.451	---	7
8	---	---	---	---	---	---	259.918	259.932	259.585	259.460	259.444	---	8
9	---	---	---	---	---	---	259.924	259.917	259.578	259.456	259.430	---	9
10	---	---	---	---	260.210	259.926	259.910	259.578	259.465	259.422	---	---	10
11	---	---	---	---	260.217	259.930	259.919	259.562	259.460	259.423	---	---	11
12	---	---	---	---	260.204	259.927	259.906	259.566	259.455	259.424	---	---	12
13	---	---	---	260.022	260.195	259.947	259.897	259.584	259.453	259.424	---	---	13
14	---	---	---	260.036	260.183	259.957	259.885	259.567	259.447	259.424	---	---	14
15	---	---	---	260.039	260.172	259.965	259.867	259.552	259.446	259.424	---	---	15
16	---	---	---	260.067	260.160	259.960	259.959	259.544	259.443	259.424	---	---	16
17	---	---	---	260.112	260.145	259.957	259.851	259.541	259.437	259.425	---	---	17
18	---	---	---	260.097	260.127	259.937	259.838	259.536	259.452	259.425	---	---	18
19	---	---	---	---	260.123	259.943	259.825	259.539	259.447	259.426	---	---	19
20	---	---	---	---	260.105	259.961	259.814	259.523	259.446	259.427	---	---	20
21	---	---	---	---	260.094	259.990	259.798	259.520	259.445	259.428	---	---	21
22	---	---	---	---	260.083	260.026	259.787	259.517	259.443	259.429	---	---	22
23	---	---	---	---	260.066	260.031	259.770	259.513	259.437	259.429	---	---	23
24	---	---	---	---	260.057	260.021	259.754	259.512	259.436	259.430	---	---	24
25	---	---	---	---	260.041	260.018	259.737	259.509	259.436	259.431	---	---	25
26	---	---	---	---	260.019	260.016	259.717	259.506	259.432	259.432	---	---	26
27	---	---	---	---	260.010	260.006	259.701	259.505	259.426	259.432	---	---	27
28	---	---	---	---	260.007	259.986	259.681	259.506	259.434	259.433	---	---	28
29	---		---	---	259.991	259.981	259.663	259.503	259.433	259.433	---	---	29
30	---		---	---	259.976	259.974	259.646	259.499	259.436	259.432	---	---	30
31	---		---	---	259.980		259.628	259.496		259.433		---	31
MEAN	---	---	---	---	---	259.962	259.840	259.548	259.452	259.434	---	---	MEAN
MAX	---	---	---	---	---	260.031	259.977	259.609	259.492	259.464	---	---	MAX
MIN	---	---	---	---	---	259.907	259.628	259.496	259.426	259.422	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 44 46 N
LONG 97 19 06 W

REGULATED SINCE 1965

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.313B	0.237B	0.281B	0.684B	2.04 E	0.948	1.60 E	0.427E	0.254	0.233	0.305	0.287B	1
2	0.295B	0.233B	0.282B	1.09 B	1.73 E	0.936	1.50 E	0.451E	0.246	0.246	0.289	0.276B	2
3	0.294B	0.219B	0.279B	3.15 B	1.63 A	0.976	1.35 E	0.451E	0.235	0.266	0.319	0.263B	3
4	0.297B	0.218B	0.279B	10.3 B	1.54	1.16	1.27 E	0.439E	0.205	0.299	0.343	0.261B	4
5	0.299B	0.213B	0.281B	20.7 B	1.46	1.44	1.17 E	0.419E	0.201	0.353	0.329	0.250B	5
6	0.301B	0.204B	0.311B	27.2 B	1.37	1.81	1.12 E	0.386E	0.200	0.399	0.318	0.240B	6
7	0.306B	0.201B	0.317B	37.4 B	1.32	2.10	1.05 E	0.359E	0.207	0.392	0.321	0.221B	7
8	0.301B	0.186B	0.316B	45.4 B	1.24	1.80	0.994E	0.346E	0.216	0.367	0.317	0.213B	8
9	0.310B	0.182B	0.320B	44.2 E	1.13	1.59	0.940E	0.337A	0.225	0.313	0.317	0.189B	9
10	0.313B	0.184B	0.318B	42.3 E	0.989	1.48	0.886E	0.349	0.223	0.288	0.318	0.168B	10
11	0.304B	0.181B	0.302B	38.8 A	0.784	1.45	0.838E	0.367	0.227	0.341	0.308	0.154B	11
12	0.300B	0.182B	0.297B	31.4 E	0.763	1.44	0.806E	0.390	0.240	0.382	0.303	0.154B	12
13	0.286B	0.185B	0.295B	22.6 E	0.987	1.36	0.777E	0.368	0.243	0.405	0.313	0.145B	13
14	0.276B	0.192B	0.286B	14.2 E	1.34	1.40	0.736E	0.358	0.237	0.360	0.326	0.136B	14
15	0.277B	0.202B	0.274B	7.96 E	1.51	1.61	0.707E	0.357	0.241	0.342	0.336	0.138B	15
16	0.275B	0.234B	0.261B	3.04 E	1.46	1.85	0.678E	0.336	0.246	0.327	0.337	0.140B	16
17	0.276B	0.269B	0.261B	1.76 E	1.29	1.76	0.643E	0.321	0.254	0.313	0.333	0.147B	17
18	0.260B	0.275B	0.260B	1.63 E	1.18	1.55	0.625E	0.316	0.253	0.302	0.329	0.150B	18
19	0.258B	0.276B	0.254B	1.66 E	1.16	1.40	0.607E	0.309	0.236	0.298	0.344	0.138B	19
20	0.263B	0.277B	0.256B	1.73 E	1.31	1.33	0.589E	0.294	0.229	0.309	0.346	0.123B	20
21	0.274B	0.279B	0.251B	1.84 E	1.42	1.38	0.567E	0.274	0.237	0.300	0.335	0.112B	21
22	0.273B	0.287B	0.247B	1.95 E	1.39	1.90	0.544E	0.280	0.237	0.295	0.352B	0.107B	22
23	0.272B	0.286B	0.243B	2.07 E	1.33	3.27	0.531E	0.257	0.245	0.301	0.351B	0.100B	23
24	0.268B	0.291B	0.235B	2.12 E	1.28	6.76	0.517E	0.258	0.253	0.314	0.320B	0.093B	24
25	0.274B	0.288B	0.226B	1.95 E	1.24	11.1	0.500E	0.275	0.261	0.323	0.311B	0.092B	25
26	0.266B	0.286B	0.231B	2.04 E	1.29	5.98 A	0.484E	0.298	0.267	0.331	0.297B	0.087B	26
27	0.253B	0.287B	0.232B	2.22 E	1.20	9.39 E	0.467E	0.313	0.259	0.311	0.286B	0.107B	27
28	0.252B	0.288B	0.228B	2.34 E	1.07	10.9 A	0.459E	0.308	0.242	0.298	0.305B	0.108B	28
29	0.248B		0.232B	2.40 E	1.05	4.13 E	0.443E	0.295	0.219	0.302	0.319B	0.104B	29
30	0.239B		0.256B	2.31 E	1.01	1.78 E	0.427E	0.280	0.215	0.307	0.305B	0.095B	30
31	0.238B		0.364B		0.984		0.419E	0.270		0.317		0.088B	31
TOTAL	8.681	6.643	8.497	379.514	39.617	85.980	24.244	10.480	7.087	9.926	9.654	4.896	TOTAL
MEAN	0.280	0.237	0.274	12.7	1.27	2.87	0.782	0.338	0.236	0.320	0.322	0.158	MEAN
MAX	0.313	0.291	0.364	45.4	2.04	11.1	1.60	0.451	0.267	0.405	0.352	0.287	MAX
MIN	0.238	0.181	0.226	0.684	0.763	0.936	0.419	0.257	0.200	0.233	0.286	0.088	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.64
MAXIMUM DAILY, 45.4B ON APR 8
MINIMUM DAILY, 0.088B ON DEC 31
MAXIMUM INSTANTANEOUS,
45.4B AT 12:00 CST ON APR 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 21 20 N
LONG 97 30 50 W
DRAINAGE AREA, 1 480 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	750	JUL	2 090
FEB	574	AUG	905
MAR	734	SEP	611
APR	32 800	OCT	856
MAY	3 410	NOV	834
JUN	7 690	DEC	423

TOTAL DISCHARGE, 51 700 dam³

FOOTPRINT LAKE AT NELSON HOUSE - STATION NO. 05TF001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	243.745	243.173	242.145	242.046	242.200	242.569	243.194	243.282	243.156	243.262	243.498	243.474	1
2	243.751	243.118	242.139	242.045	242.211	242.570	243.204	243.269	243.147	243.273	243.497	243.464	2
3	243.758	243.075	242.130	242.044	242.222	242.586	243.205	243.264	243.155	243.291	243.495	243.468	3
4	243.777	243.035	242.129	242.043	242.232	242.617	243.211	243.252	243.159	243.309	243.494	243.466	4
5	243.784	242.987	242.117	242.040	242.242	242.645	243.217	243.253	243.153	243.333	243.501	243.464	5
6	243.800	242.930	242.117	242.037	242.251	242.668	243.218	243.243	243.150	243.350	243.498	243.463	6
7	243.819	242.880	242.131	242.039	242.259	242.687	243.222	243.240	243.153	243.369	243.489	243.456	7
8	243.843	242.842	242.133	242.037	242.270	242.703	243.217	243.226	243.155	243.387	243.483	243.443	8
9	243.857	242.803	242.125	242.042	242.294	242.719	243.218	243.227	243.149	243.404	243.483	243.428	9
10	243.848	242.773	242.125	242.038	242.335	242.742	243.209	243.222	243.150	243.416	243.479	243.419	10
11	243.839	242.737	242.120	242.037	242.373	242.764	243.209	243.219	243.159	243.424	243.477	243.419	11
12	243.836	242.693	242.119	242.042	242.390	242.786	243.208	243.212	243.156	243.439	243.474	243.422	12
13	243.827	242.639	242.112	242.040	242.404	242.811	243.212	243.207	243.154	243.444	243.477	243.430	13
14	243.827	242.579	242.109	242.038	242.424	242.827	243.207	243.200	243.152	243.449	243.480	243.426	14
15	243.827	242.524	242.107	242.036	242.432	242.852	243.233	243.184	243.150	243.456	243.478	243.421	15
16	243.819	242.462	242.104	242.030	242.438	242.882	243.254	243.182	243.146	243.460	243.483	243.421	16
17	243.805	242.400	242.096	242.027	242.446	242.903	243.274	243.178	243.155	243.464	243.489	243.418	17
18	243.804	242.347	242.092	242.029	242.462	242.925	243.267	243.174	243.181	243.464	243.494	243.416	18
19	243.794	242.309	242.089	242.031	242.478	242.946	243.257	243.191	243.200	243.462	243.497	243.415	19
20	243.797	242.282	242.085	242.033	242.487	242.973	243.304	243.190	243.217	243.461	243.496	243.421	20
21	243.783	242.260	242.083	242.034	242.498	242.989	243.302	243.187	243.228	243.466	243.491	243.425	21
22	243.767	242.242	242.076	242.036	242.508	243.008	243.307	243.180	243.246	243.467	243.495	243.431	22
23	243.699	242.217	242.075	242.036	242.510	243.049	243.318	243.176	243.256	243.476	243.494	243.430	23
24	243.617	242.193	242.077	242.040	242.512	243.078	243.316	243.174	243.260	243.478	243.495	243.427	24
25	243.539	242.180	242.078	242.054	242.509	243.090	243.313	243.172	243.261	243.476	243.498	243.426	25
26	243.465	242.158	242.072	242.085	242.509	243.115	243.316	243.171	243.262	243.479A	243.496	243.421	26
27	243.407	242.148	242.071	242.113	242.521	243.137	243.312	243.165	243.259	243.484E	243.492	243.422	27
28	243.366	242.143	242.068	242.142	242.537	243.153	243.302	243.164	243.260	243.488A	243.486	243.426	28
29	243.322		242.064	242.170	242.552	243.168	243.300	243.158	243.259	243.503	243.479	243.439	29
30	243.270		242.060	242.188	242.565	243.181	243.290	243.159	243.254	243.504	243.481	243.454	30
31	243.229		242.049		242.573		243.286	243.157		243.502		243.476	31
MEAN	243.698	242.576	242.100	242.055	242.408	242.871	243.257	243.203	243.191	243.427	243.489	243.436	MEAN
MAX	243.857	243.173	242.145	242.188	242.573	243.181	243.318	243.282	243.262	243.504	243.501	243.476	MAX
MIN	243.229	242.143	242.049	242.027	242.200	242.569	243.194	243.157	243.146	243.262	243.474	243.415	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 242.980
MAXIMUM DAILY, 243.857 ON JAN 9
MINIMUM DAILY, 242.027 ON APR 17
MAXIMUM INSTANTANEOUS,
243.858 AT 16:00 CST ON JAN 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 48 00 N
LONG 98 51 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1976

DRAINAGE AREA,
1 440 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 05TF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.18 B	2.45 B	1.98	1.71	2.76	13.2	7.57	4.87	3.24	---	---	---	1
2	3.12 B	2.45	2.01	1.69	2.85	13.4	7.29	4.83	3.20	---	---	---	2
3	3.11 B	2.34	1.95	1.66	2.91	13.4	7.31	5.74	3.31	---	---	---	3
4	3.09 B	2.21	1.95	1.68	2.92	13.1	6.69	5.47	3.18	---	---	---	4
5	3.07 B	2.06	1.94	1.66	2.94	13.0	6.36	5.23	3.17	---	---	---	5
6	3.05 B	2.26	1.90	1.63	2.81	12.8	6.16	4.99	3.09	---	---	---	6
7	3.02 B	2.16	1.90	1.62	2.88	12.3	6.18	5.25	3.08	---	---	---	7
8	3.00 B	1.94	1.91	1.60	2.89	12.1	5.92	5.16	2.64	---	---	---	8
9	2.96 B	2.15	1.91	1.60	3.54	11.9	5.83	5.09	2.63	---	---	---	9
10	2.92 B	2.23	1.92	1.56	4.90	11.8	5.58	5.26	2.85	---	---	---	10
11	2.87 B	2.31	1.93	1.56	5.42	11.6	5.35	5.15	2.66	---	---	---	11
12	2.83 B	2.27	1.94	1.59	5.76	11.6	5.00	5.00	2.54	---	---	---	12
13	2.79	2.28	1.98	1.58	6.57	11.6	4.83	4.86	2.50	---	---	---	13
14	2.78 B	2.24	1.94	1.55	6.67	11.7	4.71	4.58	2.47	---	---	---	14
15	2.76 B	2.23	1.95	1.56	6.64	11.7	5.40	4.70	2.47	---	---	---	15
16	2.74 B	2.22	1.95	1.55	6.60	10.9	5.60	4.17	2.38	---	---	---	16
17	2.72 B	2.06	1.93	1.56	7.26	10.6	5.92	3.98	2.61	---	---	---	17
18	2.70 B	1.87	1.84	1.57	7.71	10.3	6.24	3.85	3.28	---	---	---	18
19	2.68 B	1.89	1.83	1.57	8.08	10.2	6.48	4.22	3.63	---	---	---	19
20	2.67 B	2.02	1.78	1.56	8.30	10.1	6.59	4.35	3.95	---	---	---	20
21	2.65 B	2.10	1.81	1.57	8.80	9.87	6.47	4.16	4.21	---	---	---	21
22	2.63 B	2.17	1.80	1.63	8.98	9.97	6.55	4.14	3.88	---	---	---	22
23	2.61 B	2.17	1.80	1.70	9.20	9.62	6.54	4.00	3.88	---	---	---	23
24	2.60 B	2.11	1.80	1.63	9.29	9.56	6.36	3.87	4.06	---	---	---	24
25	2.56 B	2.10	1.74	2.06	9.41	9.56	6.07	3.82	---	---	---	---	25
26	2.56 B	2.10	1.84	2.41	9.91	9.05	6.05	3.72	---	---	---	---	26
27	2.54 B	2.08	1.80	2.62	10.7	8.52	5.88	3.58	---	---	---	---	27
28	2.52 B	2.01	1.81	2.66	11.5	8.26	5.71	3.64	---	---	---	---	28
29	2.51 B		1.79	2.70	12.2	7.97	5.70	3.56	---	---	---	---	29
30	2.49 B		1.80	2.74	12.7	7.91	5.27	3.43	---	---	---	---	30
31	2.47 B		1.79		12.9		5.12	3.37		---		---	31
TOTAL	86.24	60.80	58.23	53.93	216.16	327.69	187.08	138.08	---	---	---	---	TOTAL
MEAN	2.78	2.17	1.88	1.80	6.97	10.9	6.04	4.45	---	---	---	---	MEAN
MAX	3.18	2.45	2.01	2.74	12.9	13.4	7.57	5.74	---	---	---	---	MAX
MIN	2.47	1.84	1.74	1.55	2.76	7.91	4.71	3.37	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 13.4 ON JUN 2

MAXIMUM INSTANTANEOUS,
13.7 AT 18:30 CST ON JUN 3

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 55 50 N
LONG 98 53 10 W
DRAINAGE AREA, 596 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	7 450	JUL	16 200
FEB	5 250	AUG	11 900
MAR	5 030	SEP	---
APR	4 680	OCT	---
MAY	18 700	NOV	---
JUN	28 300	DEC	---

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	2.39	1.67	1.01	0.185	0	0	---	---	1
2	---	---	0B	0 B	2.32	1.72	1.32	0.186	0	0.001	---	---	2
3	---	---	0B	0 B	2.26	2.03	3.88	0.171	0	0.001	---	---	3
4	---	---	0B	0 B	2.10	2.13	5.48	0.356	0	0.002	---	---	4
5	---	---	0B	0 B	2.04	1.90	5.83	0.148	0	0.004	---	---	5
6	---	---	0B	0.002B	2.11	1.78	4.44	0.084	0.001	0.003	---	---	6
7	---	---	0B	0.005B	2.02	1.73	3.23	0.085	0.001	0.004	---	---	7
8	---	---	0B	0.013B	1.98	2.04	2.32	0.046	0.001	0.003	---	---	8
9	---	---	0B	0.037B	1.86	2.13	1.84	0.035	0.001	0.004	---	---	9
10	---	---	0B	0.105B	2.16	1.81	1.75	0.032	0.003	0.011	---	---	10
11	---	---	0B	0.045B	2.29	1.73	1.71	0.453	0.002	0.012	---	---	11
12	---	---	0B	0.077B	2.29	1.48	1.51	0.418	0.001	0.012	---	---	12
13	---	---	0B	0.032B	1.53	1.86	1.20	0.289	0.001	0.012	---	---	13
14	---	---	0B	0.005B	1.23	1.81	1.03	0.302	0.001	0.026	---	---	14
15	---	---	0B	0 B	1.38	1.60	0.854	0.133	0.001	0.036	---	---	15
16	---	---	0B	0 B	2.51	2.33	1.41	0.125	0.001	0.034	---	---	16
17	---	---	0B	0 B	3.96	1.58	1.20	0.364	0.002	0.032	---	---	17
18	---	---	0B	0.005B	5.51	1.69	0.853	0.296	0.001	0.028	---	---	18
19	---	---	0B	0.130B	6.12	1.33	0.764	0.263	0	0.029	---	---	19
20	---	---	0B	0.717B	6.16	1.15	0.656	0.178	0	0.029	---	---	20
21	---	---	0B	2.20 B	7.47	0.980	0.574	0.101	0	0.027	---	---	21
22	---	---	0B	6.16 B	7.22	0.849	0.488	0.067	0	0.026	---	---	22
23	---	---	0B	10.0 B	6.17	0.736	0.455	0.028	0	0.023	---	---	23
24	---	---	0B	18.3 B	4.84	0.643	0.422	0.018	0.001	0.023	---	---	24
25	---	---	0B	15.5 B	4.15	1.12	0.381	0.010	0.001	0.022	---	---	25
26	---	---	0B	11.2	3.64	1.61	0.383	0.007	0	0.030	---	---	26
27	---	---	0B	6.10	3.33	1.32	0.344	0.005	0	0.030	---	---	27
28	---	---	0B	3.06	2.85	0.927	0.381	0.005	0	0.066	---	---	28
29	---		0B	3.13	2.58	0.786	0.354	0.004	0	0.035	---	---	29
30	---		0B	2.65	2.21	0.932	0.348	0.005	0	0.027	---	---	30
31	---		0B		2.02		0.235	0.002		0.024		---	31
TOTAL	---	---	0	81.406	101.58	45.759	48.884	4.211	0.018	0.623	---	---	TOTAL
MEAN	---	---	0	2.71	3.28	1.52	1.51	0.136	0.001	0.020	---	---	MEAN
MAX	---	---	0	18.3	7.47	2.33	5.83	0.453	0.003	0.066	---	---	MAX
MIN	---	---	0	0	1.33	0.643	0.236	0.002	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.16
MAXIMUM DAILY, 18.3B ON APR 24
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 31 56 N
LONG 100 25 15 W
DRAINAGE AREA, 286 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	4 030
FEB	---	AUG	364
MAR	0	SEP	1.64
APR	7 030	OCT	53.8
MAY	8 780	NOV	---
JUN	3 950	DEC	---

TOTAL DISCHARGE, 24 200 dam³

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 05NF007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.006B	0.300B	3.06	0.111	0.169	0	0	0	---	---	1
2	---	---	0.006B	0.500B	2.71	0.086	0.216	0	0	0	---	---	2
3	---	---	0.006B	0.400B	1.50	0.084	0.189	0	0	0	---	---	3
4	---	---	0.006B	0.750B	1.30	0.075	0.187	0	0	0	---	---	4
5	---	---	0.006B	1.24 B	1.31	0.070	0.184	0	0	0	---	---	5
6	---	---	0.005B	1.48 B	1.26	0.066	0.185	0	0	0	---	---	6
7	---	---	0.005B	3.16 B	1.19	0.064	0.182	0	0	0	---	---	7
8	---	---	0.005B	2.91 B	1.14	0.063	0.146	0	0	0	---	---	8
9	---	---	0.005B	2.50 B	1.08	0.062	0.151	0	0	0	---	---	9
10	---	---	0.002B	1.11 B	1.09	0.061	0.137	0	0	0	---	---	10
11	---	---	0.003B	0.600B	1.05	0.063	0.128	0	0	0	---	---	11
12	---	---	0.003B	1.24 B	1.19	0.052	0.108	0	0	0	---	---	12
13	---	---	0.003B	2.59 B	0.954	0.036	0.085	0	0	0	---	---	13
14	---	---	0.003B	2.49 B	0.543	0.033	0.067	0	0	0	---	---	14
15	---	---	0.003B	3.19 B	0.316	0.032	0.051	0	0	0	---	---	15
16	---	---	0.003B	3.25 B	0.238	0.030	0.044	0	0	0	---	---	16
17	---	---	0.001B	1.88 B	0.209	0.030	0.028	0	0	0	---	---	17
18	---	---	0.001B	1.15	0.231	0.027	0.021	0	0	0	---	---	18
19	---	---	0.001B	0.901	0.270	0.049	0.017	0	0	0	---	---	19
20	---	---	0 B	0.355	0.264	0.061	0.013	0	0	0	---	---	20
21	---	---	0 B	1.08	0.326	0.071	0.012	0	0	0	---	---	21
22	---	---	0 B	2.96	0.357	0.101	0.012	0	0	0	---	---	22
23	---	---	0 B	3.72	0.356	0.131	0.008	0	0	0	---	---	23
24	---	---	0 B	7.88	0.335	0.120	0.006	0	0	0	---	---	24
25	---	---	0 B	8.89	0.307	0.121	0.005	0	0	0	---	---	25
26	---	---	0 B	8.65	0.279	0.116	0	0	0	0	---	---	26
27	---	---	0 B	7.88	0.232	0.111	0	0	0	0	---	---	27
28	---	---	0.001B	3.83	0.189	0.107	0	0	0	0	---	---	28
29	---		0.010B	3.36	0.166	0.105	0	0	0	0	---	---	29
30	---		0.050B	3.35	0.145	0.109	0	0	0	0	---	---	30
31	---		0.100B		0.124		0	0		0		---	31
TOTAL	---	---	0.234	80.916	23.833	2.276	2.261	0	0	0	---	---	TOTAL
MEAN	---	---	0.008	2.70	0.769	0.076	0.072	0	0	0	---	---	MEAN
MAX	---	---	0.100	8.89	3.06	0.131	0.216	0	0	0	---	---	MAX
MIN	---	---	0	0.355	0.124	0.030	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.447
MAXIMUM DAILY, 8.89 ON APR 25
MINIMUM DAILY, 0B ON MAR 20
MAXIMUM INSTANTANEOUS,
9.02 AT 14:51 CST ON APR 24

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 45 N
LONG 101 11 00 W
DRAINAGE AREA, 1 130 km²

B - ICE CONDITIONS

REGULATED SINCE 1962

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	194
FEB	---	AUG	0
MAR	20.2	SEP	0
APR	6 990	OCT	0
MAY	2 060	NOV	---
JUN	197	DEC	---

TOTAL DISCHARGE, 9 460 dam³

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.044B	0.018B	7.54	2.46	0.615	0.187	0	0	---	---	1
2	---	---	0.044B	0.018B	6.23	3.12	0.881	0.208	0	0	---	---	2
3	---	---	0.043B	0.017B	5.31	2.93	0.812	0.236	0	0	---	---	3
4	---	---	0.043B	0.032B	4.85	3.42	3.03	0.217	0	0	---	---	4
5	---	---	0.043B	0.044B	4.62	3.42	3.26	0.212	0	0	---	---	5
6	---	---	0.042B	0.064B	4.17	3.06	3.40	0.231	0.001	0	---	---	6
7	---	---	0.041B	0.084B	3.62	2.66	2.72	0.212	0	0	---	---	7
8	---	---	0.041B	0.130B	3.30	2.92	2.08	0.151	0	0	---	---	8
9	---	---	0.040B	0.260B	3.02	3.19	1.82	0.139	0.002	0	---	---	9
10	---	---	0.040B	0.234B	3.04	2.93	1.33	0.130	0.004	0	---	---	10
11	---	---	0.039B	0.150B	3.16	2.60	1.40	0.112	0.001	0	---	---	11
12	---	---	0.039B	0.085B	3.16	2.26	1.85	0.104	0	0	---	---	12
13	---	---	0.038B	0.036B	2.87	1.96	2.53	0.087	0	0	---	---	13
14	---	---	0.037B	0.032B	2.06	1.88	2.01	0.085	0	0	---	---	14
15	---	---	0.036B	0.024B	2.39	2.59	1.48	0.075	0	0.052A	---	---	15
16	---	---	0.035B	0.020B	3.70	2.27	1.80	0.073	0	0.215	---	---	16
17	---	---	0.034B	0.016B	6.23	1.95	1.72	0.075	0	0.178	---	---	17
18	---	---	0.033B	0.036B	10.6	1.63	1.52	0.072	0	0.163	---	---	18
19	---	---	0.032B	0.064B	13.7	1.36	1.29	0.084	0	0.161	---	---	19
20	---	---	0.031B	0.150B	13.3	1.15	1.36	0.053	0	0.153	---	---	20
21	---	---	0.030B	0.070B	13.3	0.882	0.959	0.041	0	0.151	---	---	21
22	---	---	0.029B	5.74 B	12.6	0.884	0.788	0.037	0	0.136	---	---	22
23	---	---	0.028B	11.6 B	12.7	0.810	0.622	0.028	0	0.139	---	---	23
24	---	---	0.027B	17.4 B	11.1	0.713	0.620	0.021	0	0.128	---	---	24
25	---	---	0.026B	28.5 A	9.51	0.765	0.555	0.028	0	0.131	---	---	25
26	---	---	0.025B	26.3	6.89	0.831	0.397	0.018	0	0.131	---	---	26
27	---	---	0.024B	22.7	5.88	0.881	0.281	0.014	0	0.136	---	---	27
28	---	---	0.023B	17.6	5.08	0.892	0.256	0.010	0	0.143	---	---	28
29	---		0.022B	13.5	4.25	0.806	0.243	0.006	0	0.136	---	---	29
30	---		0.021B	10.8	3.42	0.676	0.176	0.004	0	0.130	---	---	30
31	---		0.020B		2.90		0.162	0.002		0.128		---	31
TOTAL	---	---	1.049	155.655	194.84	50.762	40.807	2.634	0.008	2.414	---	---	TOTAL
MEAN	---	---	0.034	5.19	6.29	1.69	1.31	0.085	0	0.078	---	---	MEAN
MAX	---	---	0.044	28.5	13.7	3.42	3.40	0.236	0.004	0.215	---	---	MAX
MIN	---	---	0.020	0.017	2.06	0.676	0.162	0.002	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.66
MAXIMUM DAILY, 28.5A ON APR 25
MINIMUM DAILY, 0 ON SEP 1
MAXIMUM INSTANTANEOUS,
30.0 AT 14:00 CST ON APR 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 51 06 N
LONG 100 16 58 W
DRAINAGE AREA, 430 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 510
FEB	---	AUG	253
MAR	90.6	SEP	0.69
APR	13 400	OCT	209
MAY	16 800	NOV	---
JUN	4 390	DEC	---

TOTAL DISCHARGE, 38 200 dam³

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO 05FA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	26.78	21.58	18.18	15.38	13.28	120	85.7	70.7	54.2	104	71.7	42.98	1
2	26.58	21.48	18.08	15.28	13.38	121	84.1	69.9	53.6	100	72.0	42.38	2
3	26.38	21.38	18.08	15.28	13.18	120	78.7	69.5	52.5	98.6	71.9	41.88	3
4	26.18	21.28	17.98	15.18	13.18	122	76.3	67.5	53.2	98.1	71.4	41.28	4
5	25.88	21.18	17.98	15.18	13.18	121	77.9	66.3	52.6	94.9	71.2	40.98	5
6	25.78	21.08	17.88	15.08	13.18	121	77.9	69.7	70.8	94.6	72.5	40.28	6
7	25.68	20.98	17.78	15.08	13.08	122	75.9	65.2	74.7	96.7	71.3	39.88	7
8	25.58	20.88	17.58	14.98	12.88	120	75.1	67.6	75.9	95.6	70.8	39.48	8
9	25.28	20.78	17.38	14.88	12.88	116	74.7	66.4	76.4	95.6	72.4	38.98	9
10	25.18	20.58	17.28	14.68	12.68	117	71.2	67.3	75.5	92.5	72.0	38.58	10
11	24.98	20.48	17.18	14.58	12.58	113	71.0	67.3	76.8	90.5	70.5	37.28	11
12	24.78	20.38	17.08	14.48	12.58	113	69.8	67.5	78.5	91.2	69.8	36.18	12
13	24.68	20.18	17.08	14.48	12.58	111	68.1	64.0	78.3	89.6	68.6	37.58	13
14	24.58	20.18	16.98	14.38	12.78	110	65.9	64.2	78.6	87.2	68.98	36.98	14
15	24.38	20.08	16.98	14.28	13.28	110	64.7	65.8	78.9	86.6	65.98	36.08	15
16	23.98	19.98	16.68	14.28	15.18	113	60.6	63.8	77.0	82.0	64.68	35.58	16
17	23.78	19.78	16.78	14.18	16.78	114	61.0	61.1	75.2	80.2	63.38	35.48	17
18	23.58	19.68	16.68	14.18	22.38	113	61.2	58.3	72.4	88.0	62.38	34.88	18
19	23.48	19.58	16.48	14.08	27.98	111	60.6	57.3	71.0	88.3	61.08	34.38	19
20	23.38	19.48	16.38	13.98	34.18	108	60.6	60.9	78.9	86.0	59.78	33.98	20
21	23.28	19.28	16.38	13.78	41.28	105	61.6	62.4	79.7	83.8	58.38	33.38	21
22	23.18	19.18	16.28	13.68	48.98	102	60.4	62.0	80.8	81.4	56.28	33.08	22
23	23.08	19.08	16.18	13.58	55.98	101	58.6	64.6	85.0	80.1	53.08	32.48	23
24	22.98	18.88	16.18	13.48	63.78	100	60.7	65.1	85.5	78.1	50.48	32.08	24
25	22.78	18.78	16.18	13.38	71.4	95.3	63.6	65.2	87.8	78.1	46.58	31.58	25
26	22.58	18.58	16.08	13.38	77.4	93.7	61.3	63.5	89.0	78.3	45.88	31.08	26
27	22.38	18.38	16.08	13.38	84.7	93.3	60.7	63.7	89.0	76.0	45.68	30.58	27
28	22.28	18.28	15.98	13.38	96.1	92.9	61.9	63.9	88.8	76.6	45.18	30.08	28
29	22.18		15.88	13.28	106	91.2	66.7	60.7	102	77.9	44.38	29.48	29
30	22.08		15.68	13.28	112	87.1	66.4	56.0	105	76.1	43.68	29.28	30
31	21.48		15.58		117		69.4	56.0		75.8		28.78	31
TOTAL	747.1	559.2	520.7	426.1	1 185.8	3 279.5	2 111.8	1 996.4	2 389.8	2 705.4	1 982.0	1 107.5	TOTAL
MEAN	24.1	20.0	16.8	14.2	38.3	109	68.1	64.4	79.7	87.3	62.1	35.7	MEAN
MAX	26.7	21.5	18.1	15.3	117	122	85.7	70.7	105	104	72.5	42.8	MAX
MIN	21.8	18.2	15.5	13.2	12.5	87.1	58.6	56.0	52.5	75.8	43.6	28.7	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 51.6
MAXIMUM DAILY, 122 ON JUN 4
MINIMUM DAILY, 12.58 ON MAY 11
MAXIMUM INSTANTANEOUS,
122 AT 00:10 CST ON JUN 4

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 21 00 N
LONG 97 35 52 W
DRAINAGE AREA, 5 960 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	64 500	JUL	182 000
FEB	48 300	AUG	172 000
MAR	45 000	SEP	206 000
APR	36 800	OCT	234 000
MAY	102 000	NOV	181 000
JUN	283 000	DEC	95 700

TOTAL DISCHARGE, 1 630 000 dam³

CINDY CREEK NEAR CARTWRIGHT - STATION NO 05DA015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.8	3.19 B	0.376	0.101	0.335	---	---	---	---	---	1
2	---	---	0.8	4.85 B	0.352	0.096	0.335	---	---	---	---	---	2
3	---	---	0.8	3.89 B	0.333	0.093	0.316	---	---	---	---	---	3
4	---	---	0.8	3.42 B	0.308	0.083	0.293	---	---	---	---	---	4
5	---	---	0.8	3.22 B	0.300	0.078	0.273	---	---	---	---	---	5
6	---	---	0.0048	3.34 B	0.281	0.070	0.231	---	---	---	---	---	6
7	---	---	0.0108	3.61	0.262	0.060	0.213	---	---	---	---	---	7
8	---	---	0.0208	3.86	0.227	0.053	0.180	---	---	---	---	---	8
9	---	---	0.0188	3.84	0.216	0.044	0.186	---	---	---	---	---	9
10	---	---	0.0158	3.87	0.216	0.044	0.137	---	---	---	---	---	10
11	---	---	0.0108	3.11	0.200	0.042	0.116	---	---	---	---	---	11
12	---	---	0.0128	3.04	0.233	0.039	0.102	---	---	---	---	---	12
13	---	---	0.0208	1.74	0.320	0.038	0.088	---	---	---	---	---	13
14	---	---	0.0118	0.932	0.328	0.037	0.073	---	---	---	---	---	14
15	---	---	0.0118	1.06	0.317	0.030	0.056	---	---	---	---	---	15
16	---	---	0.1508	0.956	0.362	0.021	0.052	---	---	---	---	---	16
17	---	---	0.4008	0.916	0.352	0.017	0.045	---	---	---	---	---	17
18	---	---	0.5508	0.851	0.366	0.013	0.035	---	---	---	---	---	18
19	---	---	0.4008	0.680	0.327	0.018	0.030	---	---	---	---	---	19
20	---	---	0.2608	0.646	0.303	0.018	0.028	---	---	---	---	---	20
21	---	---	0.1008	0.589	0.280	0.048	0.020	---	---	---	---	---	21
22	---	---	0.0808	0.561	0.256	0.128	0.016	---	---	---	---	---	22
23	---	---	0.0608	0.638	0.223	0.128	0.010	---	---	---	---	---	23
24	---	---	0.0408	0.853	0.188	0.101	0.008	---	---	---	---	---	24
25	---	---	0.0208	0.819	0.171	0.083	0.005	---	---	---	---	---	25
26	---	---	0.0808	0.574	0.181	0.055	0.003	---	---	---	---	---	26
27	---	---	0.0808	0.490	0.167	0.101	0.001A	---	---	---	---	---	27
28	---	---	0.1108	0.473	0.130	0.354	0.001E	---	---	---	---	---	28
29	---	---	0.1408	0.440	0.110	0.349	0.001E	---	---	---	---	---	29
30	---	---	1.16 B	0.389	0.115	0.350	0.001E	---	---	---	---	---	30
31	---	---	3.16 B		0.112		0.001E	---	---	---	---	---	31
TOTAL	---	---	5.901	53.344	7.837	3.711	3.178	---	---	---	---	---	TOTAL
MEAN	---	---	0.190	1.78	0.253	0.080	0.103	---	---	---	---	---	MEAN
MAX	---	---	3.16	4.85	0.376	0.354	0.335	---	---	---	---	---	MAX
MIN	---	---	0	0.389	0.112	0.013	0.001	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.572
MAXIMUM DAILY, 4.85B ON APR 2
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 04 49 N
LONG 98 21 00 W
DRAINAGE AREA, 220 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	275
FEB	---	AUG	---
MAR	510	SEP	---
APR	4 610	OCT	---
MAY	677	NOV	---
JUN	334	DEC	---

TOTAL DISCHARGE, 6 030 dam³

GLENELLA DRAIN NEAR GLENELLA - STATION NO. 05LL025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.0148	3.26	1.07	0.122	0.004	0	0	---	---	1
2	---	---	0 B	0.0158	3.00	0.985	0.353	0.003	0	0	---	---	2
3	---	---	0 B	0.0228	2.82	1.10	0.463	0.003	0	0	---	---	3
4	---	---	0 B	0.0748	2.48	1.36	0.379	0	0	0	---	---	4
5	---	---	0 B	0.1848	2.27	1.37	0.376	0	0	0	---	---	5
6	---	---	0 B	0.4858	2.01	1.22	0.338	0	0	0	---	---	6
7	---	---	0 B	1.22 B	1.75	1.04	0.280	0	0	0	---	---	7
8	---	---	0 B	1.96 B	1.49	0.946	0.226	0	0	0	---	---	8
9	---	---	0 B	7.48 B	1.37	0.662	0.158	0	0	0	---	---	9
10	---	---	0 B	10.4 B	1.42	0.761	0.142	0	0	0	---	---	10
11	---	---	0 B	9.94 B	1.42	0.660	0.126	0	0	0	---	---	11
12	---	---	0 B	8.18 B	1.31	0.567	0.259	0	0	0	---	---	12
13	---	---	0 B	7.07 B	1.36	0.531	0.387	0	0	0	---	---	13
14	---	---	0 B	6.58 B	1.43	0.501	0.306	0	0	0	---	---	14
15	---	---	0 B	6.89 B	1.38	0.480	0.263	0	0	0	---	---	15
16	---	---	0 B	5.85 B	1.51	0.469	0.215	0	0	0	---	---	16
17	---	---	0 B	4.85	2.30	0.450	0.144	0	0	0	---	---	17
18	---	---	0 B	4.37	3.86	0.398	0.389	0	0	0	---	---	18
19	---	---	0 B	4.57	5.48	0.370	0.405	0	0	0	---	---	19
20	---	---	0 B	5.16	4.02	0.322	0.312	0	0	0	---	---	20
21	---	---	0 B	11.1	2.81	0.305	0.258	0	0	0	---	---	21
22	---	---	0 B	9.86	2.48	0.308	0.195	0	0	0	---	---	22
23	---	---	0 B	8.61	2.15	0.284	0.122	0	0	0	---	---	23
24	---	---	0 B	9.42	1.98	0.261	0.068	0	0	0	---	---	24
25	---	---	0 B	9.87	1.76	0.257	0.027	0	0	0	---	---	25
26	---	---	0 B	9.23	1.56	0.225	0.008	0	0	0	---	---	26
27	---	---	0 B	7.40	1.56	0.174	0.004	0	0	0	---	---	27
28	---	---	0 B	6.39	1.46	0.141	0.005	0	0	0	---	---	28
29	---	---	0.0058	4.36	1.33	0.107	0.013	0	0	0	---	---	29
30	---	---	0.0098	3.68	1.24	0.127	0.003	0	0	0	---	---	30
31	---	---	0.0118		1.18		0.004	0		0	---	---	31
TOTAL	---	---	0.025	188.234	85.32	17.871	8.335	0.010	0	0	---	---	TOTAL
MEAN	---	---	0.001	6.61	2.11	0.589	0.284	0	0	0	---	---	MEAN
MAX	---	---	0.011	11.1	5.48	1.37	0.453	0.004	0	0	---	---	MAX
MIN	---	---	0	0.014	1.18	0.107	0.003	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.05
MAXIMUM DAILY, 11.1 ON APR 21
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
12.4B AT 16:40 CST ON APR 10

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 33 37 N
LONG 99 09 23 W

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	547
FEB	---	AUG	0.85
MAR	2.16	SEP	0
APR	16 800	OCT	0
MAY	5 640	NOV	---
JUN	1 530	DEC	---

TOTAL DISCHARGE, 22 200 dam³

CODS LAKE AT OUTLET OF CODS LAKE - STATION NO. 04ACO08

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	179.831	179.778	179.690	179.645	179.570	179.903	180.232	180.389	180.336	180.178	180.006	179.886	1
2	179.831	179.789	179.705	179.636	179.567	179.913	180.261	180.393	180.328	180.153	179.990	179.885	2
3	179.824	179.785	179.695	179.632	179.570	179.925	180.252	180.401	180.350	180.135	179.992	179.882	3
4	179.826	179.784	179.696	179.628	179.583	179.947	180.245	180.399	180.318	180.134	179.992	179.878	4
5	179.827	179.785	179.692	179.623	179.585	179.958	180.268	180.396	180.318	180.139	179.990	179.876	5
6	179.826	179.767	179.679	179.621	179.585	179.972	180.267	180.388	180.296	180.136	179.979	179.886	6
7	179.824	179.760	179.687	179.618	179.570	179.982	180.278	180.384	180.296	180.134	179.984	179.871	7
8	179.821	179.746	179.702	179.613	179.559	179.996	180.286	180.371	180.286	180.129	179.954	179.869	8
9	179.827	179.745	179.698	179.616	179.563	180.015	180.288	180.384	180.292	180.123	179.966	179.857	9
10	179.826	179.750	179.698	179.600	179.573	180.022	180.299	180.390	180.276	180.116	179.958	179.849	10
11	179.819	179.747	179.698	179.588	179.594	180.048	180.305	180.381	180.278	180.096	179.946	179.853	11
12	179.812	179.742	179.697	179.586	179.594	180.053	180.325	180.387	180.273	180.119	179.954	179.853	12
13	179.802	179.736	179.703	179.578	179.605	180.068	180.333	180.389	180.267	180.105	179.952	179.854	13
14	179.802	179.733	179.701	179.578	179.626	180.089	180.324	180.383	180.254	180.090	179.940	179.844	14
15	179.801	179.752	179.695	179.574	179.635	180.088	180.313	180.389	180.234	180.102	179.937	179.838	15
16	179.803	179.748	179.693	179.572	179.646	180.101	180.333	180.385	180.264	180.098	179.936	179.829	16
17	179.798	179.743	179.691	179.567	179.646	180.127	180.358	180.382	180.239	180.081	179.939	179.826	17
18	179.802	179.735	179.692	179.567	179.653	180.141	180.359	180.353	180.242	180.057	179.922	179.827	18
19	179.800	179.731	179.690	179.559	179.677	180.140	180.349	180.340	180.246	180.065	179.916	179.823	19
20	179.797	179.729	179.684	179.563	179.686	180.152	180.351	180.351	180.233	180.053	179.886	179.822	20
21	179.795	179.730	179.680	179.571	179.703	180.154	180.356	180.349	180.229	180.054	179.888	179.819	21
22	179.797	179.726	179.673	179.584	179.722	180.177	180.370	180.343	180.220	180.047	179.895	179.810	22
23	179.793	179.731	179.668	179.551	179.746	180.186	180.371	180.346	180.226	180.048	179.903	179.813	23
24	179.787	179.726	179.657	179.547	179.758	180.210	180.382	180.345	180.225	180.054	179.908	179.813	24
25	179.788	179.725	179.654	179.550	179.772	180.203	180.387	180.348	180.214	180.039	179.904	179.804	25
26	179.785	179.719	179.656	179.548	179.791	180.208	180.390	180.355	180.214	180.038	179.908	179.799	26
27	179.780	179.707	179.665	179.575	179.821	180.215	180.395	180.345	180.217	180.025	179.909	179.794	27
28	179.782	179.691	179.657	179.579	179.840	180.231	180.389	180.343	180.195	180.020	179.908	179.786	28
29	179.782		179.654	179.577	179.858	180.241	180.382	180.347	180.202	180.024	179.900	179.782	29
30	179.776		179.651	179.571	179.869	180.226	180.385	180.344	180.187	180.020	179.893	179.769	30
31	179.776		179.642		179.887		180.383	180.340		180.022		179.780	31
MEAN	179.805	179.743	179.682	179.587	179.671	180.090	180.330	180.367	180.258	180.085	179.938	179.835	MEAN
MAX	179.831	179.778	179.705	179.645	179.887	180.241	180.395	180.401	180.350	180.178	180.006	179.886	MAX
MIN	179.776	179.691	179.642	179.547	179.558	179.903	180.232	180.340	180.187	180.020	179.869	179.780	MIN

WATER LEVELS IN METRES

MEAN, 179.861
MAXIMUM DAILY, 180.401 ON AUG 3
MINIMUM DAILY, 179.547 ON APR 24
MAXIMUM INSTANTANEOUS,
180.416 AT 11:30 CST ON AUG 4

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 48 47 N
LONG 94 05 00 W

NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA (LOCAL 1969 ADJ.)
APPLY -001.780 M ADJUSTMENT TO CONVERT TO MANITOBA-ONTARIO BOUNDARY SURVEY DATUM

GODS RIVER AT OUTLET OF GODS LAKE - STATION NO. 04AC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	165	158	147	140	131	178	228	258	248	219	191	173	1
2	165	157	146	139	130	178	234	259	246	216	189	173	2
3	164	156	147	139	131	178	232	260	250	212	189	173	3
4	165	156	147	138	130	183	231	260	244	211	189	172	4
5	165	155	147	137	130	186	235	258	244	212	189	172	5
6	165	155	145	137	130	186	235	257	240	212	187	170	6
7	164	155	147	137	131	188	237	257	240	211	185	171	7
8	164	153	148	136	129	190	239	254	240	211	184	171	8
9	165	153	147	137	130	193	239	257	238	210	185	169	9
10	165	154	147	135	131	194	241	258	236	209	186	168	10
11	164	154	147	133	134	198	242	256	238	205	185	168	11
12	163	153	147	133	134	198	246	257	236	209	184	169	12
13	161	153	148	132	135	201	247	258	235	207	183	169	13
14	161	154	148	132	138	204	245	257	233	204	181	167	14
15	161	154	147	131	139	204	243	254	229	204	181	168	15
16	161	154	147	131	140	208	247	253	231	205	181	168	16
17	161	153	148	130	141	210	251	252	230	203	181	165	17
18	161	152	148	130	141	212	252	251	231	199	179	165	18
19	161	152	146	129	144	212	250	248	231	200	178	164	19
20	161	151	145	130	145	214	250	250	229	199	173	164	20
21	160	151	145	131	148	217	253	250	227	198	171	164	21
22	161	152	144	130	150	219	254	249	227	198	175	162	22
23	160	151	143	128	153	220	254	249	228	198	176	163	23
24	159	151	142	128	155	225	256	249	227	199	178	163	24
25	159	151	143	128	157	224	257	250	226	198	178	162	25
26	159	150	142	126	160	224	258	251	226	196	177	161	26
27	158	148	142	131	164	226	259	248	226	194	177	160	27
28	158	148	142	132	167	229	258	249	222	194	177	159	28
29	158		142	132	169	230	258	248	223	196	176	158	29
30	158		141	131	171	228	257	249	221	193	174	155	30
31	158		140		174		257	248		194		158	31
TOTAL	5 010	4 285	4 503	3 985	4 482	6 154	7 644	7 857	7 000	6 313	5 438	5 143	TOTAL
MEAN	162	153	145	133	144	205	247	253	233	204	181	166	MEAN
MAX	165	158	148	140	174	230	259	260	250	219	191	173	MAX
MIN	158	148	140	128	129	178	228	248	221	193	171	158	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 186
MAXIMUM DAILY, 260 ON AUG 3
MINIMUM DAILY, 128 ON APR 23
MAXIMUM INSTANTANEOUS,
263 AT 11:30 CST ON AUG 4

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 50 14 N
LONG 94 05 11 W
DRAINAGE AREA, 25 900 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	433 000	JUL	660 000
FEB	370 000	AUG	679 000
MAR	389 000	SEP	605 000
APR	344 000	OCT	545 000
MAY	386 000	NOV	470 000
JUN	532 000	DEC	444 000

TOTAL DISCHARGE, 5 860 000 dam³

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2710	2420	2170	1950	1880	2 310	784	570	637	783	634	3670	1
2	2710	2410	2160	1950	1880	2 120	740	558	627	764	633	3620	2
3	2710	2400	2150	1960	1880	1 850	716	545	608	726	607	3460	3
4	2690	2390	2150	1940	1890	1 770	702	545	650	702	592	3450	4
5	2680	2380	2140	1930	1890	1 630	683	542	693	678	585	3420	5
6	2680	2380	2130	1930	1900	1 500	686	530	686	666	604	3380	6
7	2680	2380	2130	1920	1940	1 380	664	527	664	656	598	3360	7
8	2670	2380	2120	1910	1980	1 280	656	511	640	646	586	3330	8
9	2660	2360	2120	1900	2120	1 210	642	497	625	630	567	3290	9
10	2640	2360	2110	1900	2360	1 150	641	490	606	626	4930	3260	10
11	2630	2340	2100	1900	3030	1 110	622	511	612	621	4800	3230	11
12	2620	2320	2090	1900	3870	1 070	619	517	644	618	4680	3200	12
13	2610	2310	2080	1890	4900	1 040	638	517	685	612	4580	3160	13
14	2600	2310	2070	1880	5730	1 010	641	520	657	608	4500	3140	14
15	2580	2300	2070	1880	6080	988	623	494	650	603	4420	3120	15
16	2560	2300	2060	1880	6120	970	604	485	618	600	4350	3090	16
17	2570	2280	2060	1880	6000	955	614	447	602	603	4270	3070	17
18	2560	2270	2050	1880	1 1000	953	625	444	610	599	4210	3060	18
19	2550	2270	2040	1880	1 2300	953	616	482	706	581	4150	3020	19
20	2530	2260	2030	1880	1 3900	937	599	538	699	583	4060	2999	20
21	2520	2250	2020	1880	1 5900	930	583	521	673	590	4040	2980	21
22	2510	2250	2020	1880	1 7800	902	571	588	642	603	3990	2959	22
23	2500	2230	2020	1880	1 8900	907	572	737	599	626	3930	2939	23
24	2490	2220	2010	1880	2 1490	935	586	784	595	641	3900	2910	24
25	2480	2210	2000	1880	2 3480	940	584	780	642	648	3870	2890	25
26	2480	2210	1990	1880	2 5300	917	587	772	632	648	3810	2870	26
27	2470	2200	1990	1880	2 7980	882	578	784	607	638	3780	2850	27
28	2480	2190	1980	1880	2 710	845	588	727	584	648	3760	2840	28
29	2450		1970	1880	2 670	822	588	686	588	648	3660	2810	29
30	2440		1970	1880	2 690	788	573	688	624	647	3620	2800	30
31	2440		1960		2 670		588	689		644		2780	31
TOTAL	7 993	6 462	6 387	5 893	36 384	35 255	19 436	19 196	32 687	19 980	14 140	9 675	TOTAL
MEAN	258	230	206	190	1 180	1 180	627	584	736	642	471	312	MEAN
MAX	271	242	217	195	2 780	2 310	788	772	859	783	634	367	MAX
MIN	244	218	196	188	188	794	584	444	602	583	382	278	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 849
MAXIMUM DAILY, 2 7900 ON MAY 27
MINIMUM DAILY, 1880 ON APR 14
MAXIMUM INSTANTANEOUS,
2 880 AT 14:00 CST ON MAY 27

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 51 00 N
LONG 92 05 55 W
DRAINAGE AREA, 98 500 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	891 000	JUL	1 680 000
FEB	857 000	AUG	1 690 000
MAR	853 000	SEP	1 910 000
APR	492 000	OCT	1 730 000
MAY	3 080 000	NOV	1 230 000
JUN	3 000 000	DEC	839 000

TOTAL DISCHARGE, 17 300 000 dam³

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.0028	0.006	0.002	---	---	---	---	---	---	1
2	---	---	0 B	0.3868	0.004	0.002	---	---	---	---	---	---	2
3	---	---	0 B	0.3878	0.003	0.004	---	---	---	---	---	---	3
4	---	---	0 B	0.5448	0.002	0.004	---	---	---	---	---	---	4
5	---	---	0 B	0.8918	0.002	0.003	---	---	---	---	---	---	5
6	---	---	0 B	0.6948	0.002	0.002	---	---	---	---	---	---	6
7	---	---	0 B	0.7938	0.001	0.002	---	---	---	---	---	---	7
8	---	---	0 B	0.8578	0.001	0.002	---	---	---	---	---	---	8
9	---	---	0 B	0.7218	0.002	0.002	---	---	---	---	---	---	9
10	---	---	0 B	0.5408	0.002	0.002	---	---	---	---	---	---	10
11	---	---	0 B	0.5028	0.001	0.002	---	---	---	---	---	---	11
12	---	---	0 B	0.304	0.003	0.002	---	---	---	---	---	---	12
13	---	---	0 B	0.2238	0.007	0.003	---	---	---	---	---	---	13
14	---	---	0 B	0.1748	0.007	0.006	---	---	---	---	---	---	14
15	---	---	0 B	0.1388	0.006	0.005	---	---	---	---	---	---	15
16	---	---	0 B	0.1018	0.005	0.004	---	---	---	---	---	---	16
17	---	---	0 B	0.0788	0.004	0.003	---	---	---	---	---	---	17
18	---	---	0 B	0.061	0.003	0.003	---	---	---	---	---	---	18
19	---	---	0 B	0.047	0.004	0.008	---	---	---	---	---	---	19
20	---	---	0 B	0.039	0.003	0.011	---	---	---	---	---	---	20
21	---	---	0 B	0.060	0.003	0.008	---	---	---	---	---	---	21
22	---	---	0 B	0.074	0.002	0.013	---	---	---	---	---	---	22
23	---	---	0 B	0.399	0.002	0.010	---	---	---	---	---	---	23
24	---	---	0 B	1.03	0.002	0.007	---	---	---	---	---	---	24
25	---	---	0 B	0.686	0.002	0.006	---	---	---	---	---	---	25
26	---	---	0 B	0.225	0.002	0.005	---	---	---	---	---	---	26
27	---	---	0 B	0.086	0.002	0.004	---	---	---	---	---	---	27
28	---	---	0 B	0.024	0.002	0.003	---	---	---	---	---	---	28
29	---		0 0.018	0.014	0.002	0.003	---	---	---	---	---	---	29
30	---		0 0.018	0.009	0.002	0.008	---	---	---	---	---	---	30
31	---		0 0.028		0.002		---	---	---	---	---	---	31
TOTAL	---	---	0.004	9.889	0.091	0.140	---	---	---	---	---	---	TOTAL
MEAN	---	---	0	0.329	0.003	0.005	---	---	---	---	---	---	MEAN
MAX	---	---	0.002	1.03	0.007	0.013	---	---	---	---	---	---	MAX
MIN	---	---	0	0.002	0.001	0.002	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.083
MAXIMUM DAILY, 1.03 ON APR 24
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
1.16 AT 13:34 CST ON APR 24

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 13 37 N
LONG 98 56 38 W
DRAINAGE AREA, 73.3 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	0.35	SEP	---
APR	853	OCT	---
MAY	7.85	NOV	---
JUN	12.1	DEC	---

TOTAL DISCHARGE, 873 dam³

GOPHER CREEK NEAR VIRDEN - STATION NO 05MG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0.027	0.036	0	0	0	0	---	---	1
2	---	---	0B	0.0018	0.025	0.054	0	0	0	0	---	---	2
3	---	---	0B	0.0018	0.030	0.082	0	0	0	0	---	---	3
4	---	---	0B	0.0028	0.031	0.078	0	0	0	0	---	---	4
5	---	---	0B	0.0028	0.031	0.094	0	0	0	0	---	---	5
6	---	---	0B	0.0038	0.032	0.083	0	0	0	0	---	---	6
7	---	---	0B	0.0318	0.032	0.072	0	0	0	0	---	---	7
8	---	---	0B	0.7838	0.033	0.060	0	0	0	0	---	---	8
9	---	---	0B	2.05 B	0.033	0.048	0	0	0	0	---	---	9
10	---	---	0B	2.81 B	0.034	0.038	0	0	0	0	---	---	10
11	---	---	0B	4.03 B	0.034	0.029	0	0	0	0	---	---	11
12	---	---	0B	4.00 B	0.035	0.020	0	0	0	0	---	---	12
13	---	---	0B	1.78 B	0.040	0.008	0	0	0	0	---	---	13
14	---	---	0B	1.62 B	0.041	0.001	0	0	0	0	---	---	14
15	---	---	0B	1.83 B	0.042	0	0	0	0	0	---	---	15
16	---	---	0B	1.81 B	0.043	0	0	0	0	0	---	---	16
17	---	---	0B	1.62 B	0.044	0	0	0	0	0	---	---	17
18	---	---	0B	1.18 B	0.100	0	0	0	0	0	---	---	18
19	---	---	0B	2.07 B	0.138	0	0	0	0	0	---	---	19
20	---	---	0B	3.53	0.139	0	0	0	0	0	---	---	20
21	---	---	0B	4.87	0.098	0	0	0	0	0	---	---	21
22	---	---	0B	4.90	0.072	0	0	0	0	0	---	---	22
23	---	---	0B	4.18	0.059	0	0	0	0	0	---	---	23
24	---	---	0B	3.18	0.048	0	0	0	0	0	---	---	24
25	---	---	0B	2.10	0.084	0	0	0	0	0	---	---	25
26	---	---	0B	1.34	0.053	0	0	0	0	0	---	---	26
27	---	---	0B	0.635	0.054	0	0	0	0	0	---	---	27
28	---	---	0B	0.377	0.039	0	0	0	0	0	---	---	28
29	---		0B	0.184	0.040	0	0	0	0	0	---	---	29
30	---		0B	0.088	0.029	0	0	0	0	0	---	---	30
31	---		0B		0.040		0	0		0		---	31
TOTAL	---	---	0	59.998	1.570	0.704	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	1.70	0.051	0.023	0	0	0	0	---	---	MEAN
MAX	---	---	0	4.90	0.138	0.094	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0.025	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.317
MAXIMUM DAILY, 4.90 ON APR 22
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
5.000 AT 12:04 CST ON APR 11

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 00 N
LONG 100 57 52 W
DRAINAGE AREA, 200 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	4 610	OCT	0
MAY	136	NOV	---
JUN	80.8	DEC	---

TOTAL DISCHARGE, 4 810 dam³

GRACE LAKE NEAR THE PAS - STATION NO. 05XJ002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	280.472	280.498	280.558	---	280.585	280.494	280.318	---	---	---	1
2	---	---	280.473	280.498	280.555	---	280.580	280.493	280.306	---	---	---	2
3	---	---	280.474	280.498	280.559	---	280.585	280.490	280.284	---	---	---	3
4	---	---	280.475	280.497	280.583	---	280.585	280.480	280.294	---	---	---	4
5	---	---	280.477	280.496	280.565	---	280.580	280.472	280.298	---	---	---	5
6	---	---	280.477	280.500	280.585	---	280.574	280.485	280.303	280.334A	---	---	6
7	---	---	280.485	280.502	280.567	---	280.570A	280.469	280.299	280.335	---	---	7
8	---	---	280.488	280.503	280.588	280.629A	---	280.462	280.292	280.334	---	---	8
9	---	---	280.490	280.505	280.568	280.633	---	280.432	280.286	280.335	---	---	9
10	---	---	280.491	280.505	280.577	280.629	---	280.427	280.328	280.332	---	---	10
11	---	---	280.492	280.505	280.605	280.635	---	280.424	280.324	280.335	---	---	11
12	---	---	280.492	280.508	280.606	280.644	---	280.415	280.332	280.338	---	---	12
13	---	---	280.490	280.510	280.611	280.650	---	280.403	280.331	280.339	---	---	13
14	---	---	280.491	280.512	280.615	280.654	---	280.401	280.331	280.338	---	---	14
15	---	---	280.490	280.515	280.615	280.667	---	280.379	280.332	280.339	---	---	15
16	---	---	280.490	280.516	280.620	280.685	---	280.385	280.332	280.329	---	---	16
17	---	---	280.489	280.519	280.626	280.683	---	280.377	280.335	280.330	---	---	17
18	---	---	280.488	280.521	280.635	280.654	---	280.373	280.334A	280.334	---	---	18
19	---	---	280.488	280.522	280.638	280.661	---	280.374	---	280.333	---	---	19
20	---	---	280.489	280.525	280.645	280.655	---	280.380	---	280.338	---	---	20
21	---	---	280.489	280.531	280.687	280.653	280.570A	280.389	---	280.338	---	---	21
22	---	---	280.488	280.531	280.674	280.653	280.583	280.388	---	280.341	---	---	22
23	---	---	280.486	280.525	280.678	280.646	280.580	280.383	---	280.341	---	---	23
24	---	---	280.492	280.537	280.677	280.633	280.550	280.380	---	280.337	---	---	24
25	---	---	280.498	280.539	280.680	280.631	280.545	280.365	---	280.339	---	---	25
26	---	---	280.495	280.542	---	280.630	280.537	280.349	---	280.343	---	---	26
27	---	---	280.499	280.546	---	280.622	280.523	280.341	---	280.340	---	---	27
28	---	---	280.498	280.550	---	280.609	280.515	280.338	---	280.338	---	---	28
29	---		280.495	280.551	---	280.600	280.512	280.335	---	280.338	---	---	29
30	---		280.501	280.552	---	280.595	280.503	280.330	---	280.340	---	---	30
31	---		280.500		---		280.495	280.321		280.341		---	31
MEAN	---	---	280.489	280.519	---	---	---	280.399	---	---	---	---	MEAN
MAX	---	---	280.501	280.552	---	---	---	280.494	---	---	---	---	MAX
MIN	---	---	280.472	280.496	---	---	---	280.321	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 49 00 N
LONG 101 12 00 W

A - MANUAL GAUGE

REGULATED SINCE 1955

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.24 B	0.127	0.008E	0	0	0	0	---	---	1
2	---	---	0 B	1.13 B	0.102	0.010E	0.003	0	0	0	---	---	2
3	---	---	0 B	1.17 B	0.112	0.008	0.004	0	0	0	---	---	3
4	---	---	0 B	1.50 B	0.095	0.007	0.001	0	0	0	---	---	4
5	---	---	0.0028	1.51 B	0.088	0.007	0	0	0	0	---	---	5
6	---	---	0.0128	1.39 B	0.076	0.007	0	0	0	0	---	---	6
7	---	---	0.0048	1.43	0.057	0.005	0	0	0	0	---	---	7
8	---	---	0.0018	1.18	0.047	0.005	0	0	0	0	---	---	8
9	---	---	0 B	0.886	0.041	0.005	0	0	0	0	---	---	9
10	---	---	0 B	0.951	0.022	0.005	0	0	0	0	---	---	10
11	---	---	0 B	1.18	0.015	0.004	0	0	0	0	---	---	11
12	---	---	0.0018	1.25	0.035	0.004	0	0	0	0	---	---	12
13	---	---	0.0078	1.24	0.052	0.003	0	0	0	0	---	---	13
14	---	---	0.0038	1.27	0.052	0.002	0	0	0	0	---	---	14
15	---	---	0.0018	1.02	0.070	0.001	0	0	0	0	---	---	15
16	---	---	0 B	0.738	0.078	0.001	0	0	0	0	---	---	16
17	---	---	0 B	0.684	0.080	0	0	0	0	0	---	---	17
18	---	---	0 B	0.591	0.065	0	0	0	0	0	---	---	18
19	---	---	0 B	0.480	0.053	0	0	0	0	0	---	---	19
20	---	---	0 B	0.404	0.130	0	0	0	0	0	---	---	20
21	---	---	0 B	0.333	0.096	0	0	0	0	0	---	---	21
22	---	---	0 B	0.281	0.059	0.002	0	0	0	0	---	---	22
23	---	---	0 B	0.267	0.052	0	0	0	0	0	---	---	23
24	---	---	0 B	0.338	0.045E	0	0	0	0	0	---	---	24
25	---	---	0 B	0.302	0.040E	0	0	0	0	0	---	---	25
26	---	---	0.0038	0.304	0.035E	0	0	0	0	0	---	---	26
27	---	---	0.0168	0.282	0.031E	0	0	0	0	0	---	---	27
28	---	---	0.0478	0.235	0.028E	0	0	0	0	0	---	---	28
29	---		0.0808	0.199	0.021E	0	0	0	0	0	---	---	29
30	---		0.2028	0.161	0.017E	0	0	0	0	0	---	---	30
31	---		1.00 B		0.012E		0	0		0		---	31
TOTAL	---	---	1.351	24.036	1.890	0.082	0.008	0	0	0	---	---	TOTAL
MEAN	---	---	0.044	0.801	0.061	0.003	0	0	0	0	---	---	MEAN
MAX	---	---	1.00	1.51	0.130	0.010	0.004	0	0	0	---	---	MAX
MIN	---	---	0	0.161	0.012	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.112
MAXIMUM DAILY, 1.918 ON APR 5
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
2.93 AT 04:40 CST ON APR 7

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 50 N
LONG 100 59 45 W
DRAINAGE AREA, 794 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0.80
FEB	---	AUG	0
MAR	117	SEP	0
APR	2 080	OCT	0
MAY	193	NOV	---
JUN	7.08	DEC	---

TOTAL DISCHARGE, 2 370 dam³

GRANVILLE LAKE AT PICKEREL NARROWS - STATION NO. 05ED002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	259.488	259.599	---	---	---	---	259.916	259.785	259.804	260.083	260.371	260.206	1
2	259.495	259.600	---	---	---	---	259.907	259.793	259.808	260.098	260.381	260.195	2
3	259.504	259.599	---	---	---	---	259.900	259.788	259.594	260.116	260.365	260.188	3
4	259.512	259.598	---	---	---	---	259.872	259.775	259.601	260.139	260.343	260.188	4
5	259.523	259.596	---	---	---	---	259.873	259.786	259.605	260.158	260.333	260.177	5
6	259.526	259.591	---	---	---	---	259.863	259.770	259.598	260.190	260.326	260.173	6
7	259.531	259.598	---	---	---	---	259.864	259.752	259.594	260.210	260.339	260.167	7
8	259.546	259.597	---	---	---	---	259.854	259.767	259.609	260.234	260.330	260.158	8
9	259.548	259.598	---	---	---	---	259.837	259.744	259.634	260.253	260.328	260.157	9
10	259.549	259.600	---	---	---	---	259.828	259.748	259.640	260.271	260.314	260.157	10
11	259.547	259.607	---	---	---	---	259.819	259.738	259.652	260.292	260.299	260.149	11
12	259.556	259.605	---	259.466A	---	---	259.812	259.728	259.654	260.298	260.293	260.146	12
13	259.560	259.602	---	---	---	---	259.789	259.698	259.658	260.318	260.292	260.148	13
14	259.564	259.602	---	---	---	---	259.800	259.702	259.666	260.337	260.292	260.141	14
15	259.575	259.602	---	---	---	---	259.801	259.685	259.659	260.342	260.280	260.131	15
16	259.578	259.595	---	---	---	---	259.800	259.681	259.660	260.341	260.270	260.125	16
17	259.579	259.585	---	---	---	---	259.803	259.671	259.668	260.345	260.271	260.125	17
18	259.582	259.584	---	---	---	---	259.785	259.668	259.723	260.360	260.273	260.119	18
19	259.586	259.588	---	---	---	---	259.785	259.674	259.754	260.357	260.274	260.112	19
20	259.590	259.590	---	---	---	---	259.789	259.704	259.797	260.365	260.273	260.108	20
21	259.601	259.587	---	---	---	---	259.780	259.681	259.824	260.371	260.269	260.102	21
22	259.602	259.589	---	---	---	---	259.776	259.684	259.855	260.377	260.284	260.099	22
23	259.598	259.587	---	---	---	---	259.772	259.667	259.881	260.389	260.257	260.091	23
24	259.596	259.588	---	---	---	---	259.767	259.665	259.902	260.388	260.249	260.082	24
25	259.592	259.589	---	---	---	---	259.761	259.655	259.934	260.389	260.240	260.082	25
26	259.594	259.582	---	---	---	---	259.756	259.650	259.962	260.388	260.239	260.084	26
27	259.595	---	---	---	---	259.937A	259.779	259.644	259.988	260.383	260.229	260.080	27
28	259.598	---	---	---	---	259.931	259.784	259.636	260.001	260.381	260.226	260.054	28
29	259.604		---	---	---	259.924	259.792	259.631	260.023	260.376	260.222	260.049	29
30	259.600		---	---	---	259.927	259.794	259.626	260.041	260.378	260.213	260.045	30
31	259.601		---		---		259.787	259.612		260.372		260.040	31
MEAN	259.565	---	---	---	---	---	259.816	259.703	259.747	260.299	260.287	260.124	MEAN
MAX	259.604	---	---	---	---	---	259.916	259.793	260.041	260.389	260.371	260.206	MAX
MIN	259.488	---	---	---	---	---	259.761	259.612	259.594	260.083	260.213	260.040	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 260.389 ON OCT 23

MAXIMUM INSTANTANEOUS,
260.395 AT 15:20 CST ON OCT 26

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 12 40 N
LONG 100 36 00 W

A - MANUAL GAUGE

REGULATED SINCE 1933

DRAINAGE AREA,
242 000 km²

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 07TD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	44.5	39.0	32.8	29.2	26.5	88.7	132	133	111	118	113	107	1
2	43.6	38.9	32.8	29.1	26.4	90.9	134	130	106	116	112	107	2
3	43.4	38.8	32.2	29.0	26.3	94.8	130	129	110	116	114	108	3
4	43.5	38.5	32.1	28.9	26.6	103	132	130	108	117	114	108	4
5	43.6	38.5	32.0	28.8	26.7	107	133	130	107	120	117	108	5
6	43.5	38.5	31.7	28.6	26.8	108	132	127	105	119	114	108	6
7	43.5	38.2	32.2	28.4	26.9	110	130	130	105	118	109	108	7
8	43.4	37.5	33.0	27.8	29.2	114	131	126	108	118	111	108	8
9	43.4	36.9	33.1	28.1	29.8	118	130	127	103	118	111	108	9
10	43.8	36.6	32.6	27.9	29.8	119	130	125	100	118	111	105	10
11	43.6	36.3	32.3	27.8	32.0	121	130	125	105	116	111	104	11
12	43.3	36.0	33.3	27.7	32.8	122	132	125	106	117	110	104	12
13	43.0	36.2	32.1	27.6	32.6	126	133	126	105	118	110	103	13
14	42.6	36.1	32.2	27.5	34.6	127	131	123	105	116	110	103	14
15	42.4	35.6	31.9	27.5	35.6	126	128	119	104	116	110	103	15
16	42.1	35.6	31.7	27.3	36.7	130	133	119	104	119	109	103	16
17	41.7	35.5	31.6	27.2	37.6	132	136	118	102	121	109	103	17
18	41.3	35.0	31.4	27.2	38.8	133	136	117	107	117	109	102	18
19	40.8	34.8	31.2	27.1	41.2	132	137	118	109	117	109	101	19
20	40.5	34.6	31.0	27.2	42.7	133	138	119	109	118	109	102	20
21	40.0	34.3	30.9	27.1	44.3	134	138	120	111	117	108	101	21
22	40.2	34.5	30.5	27.1	46.9	131	138	119	113	116	108	101	22
23	40.0	34.4	30.3	27.1	48.7	135	136	119	115	117	108	99.0	23
24	40.2	34.1	30.0	27.3	51.7	136	138	118	117	117	108	98.9	24
25	39.9	33.7	30.3	27.3	53.5	130	136	117	116	116	108	97.5	25
26	40.0	33.6	30.1	27.6	55.9	133	135	116	115	115	108	96.5	26
27	39.5	33.3	30.0	28.0	60.9	136	137	115	116	116	108	95.7	27
28	39.2	32.8	29.7	28.1	66.3	136	135	115	118	115	108	95.0	28
29	39.2		29.7	28.4	72.6	136	133	114	120	116	107	94.7	29
30	39.0		29.6	28.4	78.0	131	132	113	118	116	107	93.6	30
31	39.0		29.5		84.8		132	112		115		93.2	31
TOTAL	1 283.4	1 008.1	972.8	836.1	1 316.6	3 870.4	4 126	3 774	3 278	3 528	3 303	3 156.2	TOTAL
MEAN	41.7	36.0	31.4	27.9	42.5	122	133	122	109	117	110	102	MEAN
MAX	44.5	39.0	33.1	29.2	84.8	136	137	133	120	121	117	107	MAX
MIN	39.0	32.8	29.5	27.1	26.3	88.7	128	112	100	115	107	93.2	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 83.2
MAXIMUM DAILY, 137 ON JUL 19
MINIMUM DAILY, 27.1 ON APR 19
MAXIMUM INSTANTANEOUS,
142 AT 19:30 CST ON JUL 27

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 44 35 N
LONG 97 00 00 W
DRAINAGE AREA, 15 400 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	112 000	JUL	357 000
FEB	87 100	AUG	326 000
MAR	84 000	SEP	283 000
APR	72 200	OCT	313 000
MAY	114 000	NOV	286 000
JUN	317 000	DEC	273 000

TOTAL DISCHARGE, 2 839 000 dam³

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.65	5.74	5.64	5.59	8.88	10.8	12.2	22.3	21.7	23.4	19.5	18.5	1
2	5.62	5.65	5.62	5.55	6.83	10.5	12.4	22.2	21.3	22.7	19.5	18.9	2
3	5.57	5.62	5.55	5.55	6.71	10.6	12.2	22.2	22.3	22.5	19.5	18.9	3
4	5.69	5.61	5.68	5.58	6.81	11.1	11.9	22.4	21.6	22.7	19.9	18.7	4
5	5.71	5.56	5.49	5.80	7.07	11.2	12.6	22.1	21.5	23.1	20.8	18.4	5
6	5.71	5.55	5.48	5.57	7.20	11.2	12.7	22.1	21.5	22.7	19.7	18.7	6
7	5.64	5.50	5.66	5.57	7.34	11.2	12.2	22.0	21.8	22.7	19.6	18.4	7
8	5.73	5.44	5.76	5.49	7.45	11.5	12.5	21.8	21.5	22.5	20.4	18.1	8
9	5.68	5.55	5.66	5.55	7.32	11.6	12.5	22.4	20.6	22.6	20.4	18.0	9
10	5.64	5.56	5.74	5.30	7.10	11.8	12.7	22.4	22.0	22.2	20.4	17.6	10
11	5.60	5.52	5.73	5.27	7.55	11.7	13.0	22.5	23.2	21.7	20.5	17.7	11
12	5.60	5.56	5.77	5.38	7.97	12.0	13.5	22.5	23.3	21.9	20.5	17.9	12
13	5.55	5.69	5.64	5.37	7.88	12.4	14.4	22.5	23.2	21.8	20.5	18.0	13
14	5.58	5.68	5.58	5.41	8.30	12.1	14.1	21.9	22.9	21.4	20.2	17.4	14
15	5.57	5.61	5.66	5.39	8.49	12.3	15.2	21.7	22.9	21.7	20.4	18.9	15
16	5.57	5.71	5.69	5.60	8.78	12.7	16.8	21.2	22.9	21.6	20.3	18.6	16
17	5.57	5.64	5.69	5.45	8.68	12.8	16.0	21.4	23.2	21.3	20.2	18.7	17
18	5.62	5.62	5.69	5.49	8.80	12.9	16.2	21.4	23.7	21.1	20.1	18.4	18
19	5.62	5.65	5.68	5.55	9.00	12.8	16.8	23.1	23.9	21.1	20.0	18.3	19
20	5.75	5.53	5.64	5.50	9.23	12.7	16.0	22.7	24.0	21.2	19.8	18.0	20
21	5.68	5.61	5.66	5.53	9.27	12.6	19.2	23.0	23.7	21.0	19.7	18.8A	21
22	5.92	5.78	5.51	5.57	9.80	12.2	20.0	22.7	24.4	20.8	19.8	18.7E	22
23	5.86	5.79	5.48	5.55	9.85	12.6	20.5	22.6	25.0	21.0	20.0	18.5E	23
24	5.79	5.72	5.53	5.67	9.91	12.5	20.7	22.4	24.6	20.8	20.4	18.3E	24
25	5.73	5.68	5.80	5.63	9.96	12.0	20.5	22.4	24.2	20.5	20.1	18.4E	25
26	5.69	5.70	5.59	5.93	10.2	12.2	21.0	22.4	23.8	20.4	20.2	18.5E	26
27	5.62	5.68	5.62	6.18	10.4	12.4	21.6	22.1	23.5	20.4	20.1	18.8E	27
28	5.62A	5.57	5.61	6.33	10.3	12.7	21.0	22.2	23.6	20.4	19.8	18.7E	28
29	5.75A		5.69	6.43	10.4	12.7	21.0	22.0	23.5	20.3	19.6	18.8E	29
30	5.71		5.66	6.54	10.6	12.2	21.3	21.9	23.5	20.1	19.7	18.8E	30
31	5.68		5.54		10.8		22.0	22.2		20.0		18.0E	31
TOTAL	176.30	157.42	174.06	166.87	285.57	360.5	513.7	668.9	689.5	667.3	601.9	527.5	TOTAL
MEAN	5.69	5.62	5.61	5.63	8.80	12.0	16.8	22.2	23.0	21.5	20.1	17.0	MEAN
MAX	5.92	5.88	5.77	6.54	10.8	12.8	22.0	23.1	25.0	23.4	20.8	18.5	MAX
MIN	5.55	5.44	5.48	5.27	6.83	10.5	11.9	21.2	20.6	20.0	19.5	15.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 13.7
MAXIMUM DAILY, 25.0 ON SEP 23
MINIMUM DAILY, 5.27 ON APR 11
MAXIMUM INSTANTANEOUS,
25.0 AT 15:48 CST ON SEP 23

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 47 20 N
LONG 99 54 10 W
DRAINAGE AREA, 3 290 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	15 200	JUL	44 400
FEB	13 600	AUG	59 500
MAR	15 000	SEP	59 600
APR	14 600	OCT	57 700
MAY	23 000	NOV	52 000
JUN	31 100	DEC	45 500

TOTAL DISCHARGE, 431 000 dam³

GRASSMERE DRAIN NEAR MIDDLECHURCH - STATION NO. 05QJ017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	15.2 B	0.032	0	0.153	0.008	0.045	0.004	---	---	1
2	---	---	0 B	15.3 B	0.027	0	0.193	0.008	0.042	0.004	---	---	2
3	---	---	0.0018	19.9 B	0.025	0.001	0.378	0.011	0.029	0.005	---	---	3
4	---	---	0.0028	21.8 B	0.021	0	0.403	0.010	0.021	0.005	---	---	4
5	---	---	0.0108	23.7 B	0.042	0.052	0.318	0.009	0.015	0.006	---	---	5
6	---	---	0.0408	20.2 B	0.058	0.035	0.215A	0.006	0.011	0.006	---	---	6
7	---	---	0.0208	15.0 B	0.054	0.017	0.180	0.003	0.007	0.005	---	---	7
8	---	---	0.0108	12.0	0.048	0.009	0.168	0.001	0.006	0.004	---	---	8
9	---	---	0.0108	9.12	0.041	0.004	0.151	0	0.007	0.004	---	---	9
10	---	---	0.0408	6.85	0.054	0.002	0.144	0	0.006	0.004	---	---	10
11	---	---	0.0458	4.73	0.050	0	0.134	0	0.006	0.004	---	---	11
12	---	---	0.0408	3.08	0.052	0	0.118	0	0.005	0.002	---	---	12
13	---	---	0.0408	1.52	0.058	0.007	0.105	0	0.004	0.002	---	---	13
14	---	---	0.0108	1.55	0.058	0.013	0.095	0	0.004	0.001	---	---	14
15	---	---	0.0208	0.920	0.048	0.011	0.084	0	0.005	0.001	---	---	15
16	---	---	0.0508	0.830	0.038	0.008	0.078	0	0.004	0.001	---	---	16
17	---	---	0.0778	0.650	0.040	0.005	0.073	0	0.004	0.001	---	---	17
18	---	---	0.0608	0.401	0.042	0.006	0.068	0	0.002	0	---	---	18
19	---	---	0.0408	0.319	0.028	0.004	0.060	0	0.001	0	---	---	19
20	---	---	0.0608	0.338	0.019	0.050	0.064	0	0.001	0	---	---	20
21	---	---	0.0898	0.417	0.018	0.289	0.048	0.078	0.001	0	---	---	21
22	---	---	0.0808	0.376	0.012	9.25	0.040	0.068	0	0	---	---	22
23	---	---	0.0508	0.280	0.011	5.89	0.032	0.061	0	0	---	---	23
24	---	---	0.0408	0.172	0.010	2.28	0.028	0.075	0	0.001	---	---	24
25	---	---	0.0408	0.143	0.008	0.887	0.023	0.082	0	0.001	---	---	25
26	---	---	0.0408	0.104	0.005	0.405	0.020	0.081	0	0	---	---	26
27	---	---	0.0408	0.068	0.003	0.228	0.018	0.058	0	0	---	---	27
28	---	---	0.0708	0.055	0.004	0.183	0.013	0.055	0	0	---	---	28
29	---		0.0708	0.045	0.001	0.151	0.010	0.052	0	0	---	---	29
30	---		2.18 B	0.038	0	0.162	0.010	0.051	0.001	0.012	---	---	30
31	---		13.2 B		0		0.009	0.047		0.038A		---	31
TOTAL	---	---	16.474	177.806	0.934	18.957	3.413	0.722	0.227	0.112	---	---	TOTAL
MEAN	---	---	0.531	5.92	0.030	0.685	0.110	0.023	0.008	0.004	---	---	MEAN
MAX	---	---	13.2	23.7	0.058	9.25	0.403	0.078	0.045	0.038	---	---	MAX
MIN	---	---	0	0.038	0	0	0.009	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.686
MAXIMUM DAILY, 23.70 ON APR 5
MINIMUM DAILY, 00 ON MAR 1
MAXIMUM INSTANTANEOUS,
26.6 AT 20:58 CST ON APR 4

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 00 08 N
LONG 97 07 01 W
DRAINAGE AREA, 671 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	285
FEB	---	AUG	62.4
MAR	1 420	SEP	19.6
APR	15 300	OCT	9.66
MAY	70.8	NOV	---
JUN	1 730	DEC	---

TOTAL DISCHARGE, 18 900 dam³

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	12.2 B	5.69B	1.46 B	0.497B	56.0	---	---	---	---	11.7	11.0	8.83B	1
2	12.2 B	5.50B	1.42 B	0.497B	59.3	---	---	---	---	11.6	11.0	8.69B	2
3	12.1 B	5.30B	1.37 B	0.497B	56.6	---	---	---	---	11.2	10.7	8.65B	3
4	12.0 B	4.99B	1.31 B	0.497B	57.2	---	---	---	---	11.1	10.6	8.60B	4
5	11.9 B	4.75B	1.28 B	0.497B	56.2	---	---	---	---	11.1	10.7	8.51B	5
6	11.8 B	4.56B	1.19 B	0.497B	56.4	---	---	---	---	11.0	10.7	8.42B	6
7	11.7 B	4.37B	1.13 B	0.497B	56.4	---	---	---	---	10.7	11.0	8.38B	7
8	11.7 B	4.27B	1.06 B	0.497B	54.1	---	---	---	---	10.7	11.8	8.29B	8
9	11.6 B	4.03B	1.01 B	0.508B	54.7	---	---	---	---	10.6	11.8	8.16B	9
10	11.5 B	3.76B	0.952B	0.508B	58.2	---	---	---	---	10.9	11.5	8.07B	10
11	11.4 B	3.70B	0.833B	0.508B	78.7	---	---	---	---	11.2	11.3	7.98B	11
12	11.3 B	3.43B	0.815B	0.519B	77.6	---	---	---	---	11.0	11.1	7.94B	12
13	10.7 B	3.36B	0.879B	0.530B	75.9	---	---	---	---	11.0	11.1	7.90B	13
14	10.5 B	3.19B	0.824B	0.530B	74.2	---	---	---	---	10.9	11.1	7.85B	14
15	10.3 B	3.02B	0.788B	0.541B	76.9	---	---	---	---	11.0	10.9	7.76B	15
16	10.1 B	2.92B	0.770B	0.552B	79.8	---	---	---	---	10.9	10.8	7.63B	16
17	9.75B	2.72B	0.734B	0.558B	84.2	---	---	---	---	10.5	10.8	7.54B	17
18	9.29B	2.62B	0.734B	0.843B	88.6	---	---	---	---	10.7	10.8 B	7.50B	18
19	9.06B	2.54B	0.643B	0.915B	92.8	---	---	---	---	10.4	10.8 B	7.37B	19
20	8.80B	2.44B	0.588B	2.08 B	93.8	---	---	---	---	10.4	10.7 B	7.28B	20
21	8.56B	2.36B	0.586B	4.27 B	98.0	---	24.5A	---	---	10.9	10.7 B	7.19B	21
22	7.94B	2.23B	0.570B	6.01 B	105	---	---	---	---	11.0	10.6 B	7.10B	22
23	8.03B	2.11B	0.552B	8.69	110	---	---	---	---	11.3	10.5 B	6.97B	23
24	7.72B	1.88B	0.541B	14.0	111	---	---	---	---	11.3	10.3 B	6.93B	24
25	7.50B	1.92B	0.541B	23.3	109	---	---	---	---	11.1	10.2 B	6.84B	25
26	7.19B	1.85B	0.519B	35.9	107	---	---	---	13.4A	11.1	9.96B	6.75B	26
27	6.84B	1.77B	0.519B	43.4	105	---	---	---	13.1	11.1	9.75B	6.68B	27
28	6.49B	1.69B	0.508B	45.2	103	---	---	---	12.6	11.2	9.52B	6.53B	28
29	6.32B		0.497B	50.4	101	---	---	---	12.2	11.0	9.29B	6.49B	29
30	6.20B		0.497B	52.6	96.7	---	---	---	11.9	11.0	9.06B	6.40B	30
31	5.81B		0.497B		---		---	---		11.0		6.40B	31
TOTAL	296.30	92.97	25.819	296.138	---	---	---	---	---	340.8	319.90	235.61	TOTAL
MEAN	9.62	3.32	0.833	9.87	---	---	---	---	---	11.0	10.7	7.60	MEAN
MAX	12.2	5.69	1.46	52.6	---	---	---	---	---	11.7	11.8	8.83	MAX
MIN	5.81	1.69	0.497	0.497	---	---	---	---	---	10.4	9.06	6.40	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM INSTANTANEOUS,
111 AT 08:30 CST ON MAY 24

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 47 10 N
LONG 97 40 20 W
DRAINAGE AREA, 4 400 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	25 600	JUL	---
FEB	8 020	AUG	---
MAR	2 230	SEP	---
APR	25 600	OCT	29 400
MAY	---	NOV	27 800
JUN	---	DEC	20 400

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4218	3678	3278	2958	2718	4 150E	1 270	889	943	1 330	910	4878	1
2	4198	3658	3268	2948	2708	4 070E	1 220	878	904	1 270	893	4828	2
3	4178	3648	3258	2938	2698	3 980E	1 190	851	930A	1 220	883	4788	3
4	4158	3638	3248	2928	2688	3 770E	1 140	835	---	1 180	840	4708	4
5	4138	3618	3238	2918	2678	3 640E	1 100	817	---	1 100	829	4688	5
6	4118	3598	3218	2918	2678	3 360A	1 080	802	---	1 080	838	4638	6
7	4098	3588	3208	2908	2668	3 110	1 060	782	---	1 050	849	4588	7
8	4078	3568	3198	2898	2658	2 890	1 030	776	---	1 040	835	4518	8
9	4068	3558	3178	2888	2658	2 710	1 010	786	---	1 010	796	4488	9
10	4048	3548	3168	2878	2648	2 550	992	784	---	991	784	4448	10
11	4028	3538	3158	2878	2638	2 430	978	743	---	973	829	4398	11
12	4008	3518	3148	2868	2638	2 230	972	745	---	950	824	4368	12
13	3988	3508	3138	2858	2628	2 230	978	745	---	944	8108	4308	13
14	3968	3488	3128	2838	2618	2 150	984	730	---	930	8028	4278	14
15	3948	3468	3118	2838	2608	2 060	968	714	---	910	5938	4228	15
16	3938	3458	3108	2828	2908	1 970	960	679	---	908	5858	4208	16
17	3918	3448	3098	2818	4008	1 920	931	669	---	901	5788	4188	17
18	3898	3428	3088	2818	7908	1 870	932	650	---	900	5698	4128	18
19	3878	3408	3078	2808	1 1008	1 800	942	672	---	888	5518	4088	19
20	3868	3398	3068	2798	1 4508	1 750	937	728	---	870	5548	4068	20
21	3848	3388	3058	2788	1 8108	1 710	927	855	---	877	5468	4008	21
22	3828	3378	3058	2778	2 1808	1 680	914	959	---	888	5408	3948	22
23	3808	3368	3048	2768	2 5208	1 650	898	1 050	---	916	5338	3948	23
24	3798	3358	3038	2758	2 9008	1 630	898	1 100	---	935	5288	3928	24
25	3788	3338	3028	2758	3 2708	1 660	893	1 120	---	943	5218	3898	25
26	3788	3328	3018	2748	3 6308	1 580	901	1 130	1 830A	944	5158	3888	26
27	3748	3308	3008	2738	3 9208	1 510	909	1 120	1 580	938	5108	3838	27
28	3738	3298	2998	2738	4 1908	1 440	918	1 070	1 510	934	5048	3808	28
29	3728		2978	2728	4 2308	1 390	915	1 030	1 450	933	4988	3778	29
30	3708		2978	2718	4 230E	1 340	903	997	1 400	928	4938	3748	30
31	3688		2968		4 210E		898	983		923		3728	31
TOTAL	12 194	9 730	9 632	8 482	RE 081	70 210	30 646	26 847	---	30 584	19 485	13 105	TOTAL
MEAN	393	348	311	283	1 450	2 340	988	880	---	987	850	423	MEAN
MAX	421	367	327	295	4 230	4 150	1 270	1 130	---	1 330	910	487	MAX
MIN	388	329	288	271	280	1 340	893	850	---	870	493	372	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 4 230B ON MAY 29
MINIMUM DAILY, 2808 ON MAY 19

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 25 55 N
LONG 97 47 19 W
DRAINAGE AREA, 103 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 050 000	JUL	2 650 000
FEB	841 000	AUG	2 300 000
MAR	832 000	SEP	---
APR	733 000	OCT	2 840 000
MAY	3 880 000	NOV	1 680 000
JUN	6 070 000	DEC	1 130 000

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	36.28	31.68	28.08	24.08	26.88	132	138	96.3	72.6	65.4	59.2	47.88	1
2	35.98	31.58	27.98	23.98	29.28	135	138	95.4	71.1	65.3	57.4	47.68	2
3	35.78	31.38	27.78	23.88	30.98	138	138	92.9	73.4	63.5	57.1	46.78	3
4	35.48	31.28	27.68	23.68	33.18	142	133	93.9	74.5	63.2	56.7	46.18	4
5	35.38	31.08	27.58	23.58	35.08	146	134	93.3	69.9	64.2	62.0	45.48	5
6	35.18	30.98	27.48	23.48	37.48	148	133	92.9	66.9	64.8	60.2	45.08	6
7	34.88	30.88	27.28	23.48	40.38	147	131	92.1	65.8	64.3	58.8	44.38	7
8	34.78	30.78	27.18	23.28	42.38	149	129	88.9	67.5	64.5	58.6	43.98	8
9	34.58	30.68	27.08	23.18	45.3	151	127	86.4	66.9	63.9	59.7	43.38	9
10	34.48	30.48	26.88	23.18	47.2	151	128	87.2	65.0	64.4	61.7	42.68	10
11	34.38	30.38	26.78	23.08	50.8	153	126	85.4	64.8	63.0	62.0	42.38	11
12	34.18	30.28	26.68	22.98	52.6	153	126	85.1	65.2	61.9	60.3	42.18	12
13	34.08	30.18	26.58	22.98	54.5	154	124	86.4	64.8	63.2	58.5	41.88	13
14	33.98	29.98	26.38	22.88	57.6	157	124	84.1	63.9	62.3	58.6	41.18	14
15	33.88	29.88	26.28	22.78	58.2	156	116	81.4	63.2	61.8	58.9	40.58	15
16	33.68	29.78	26.18	22.68	59.4	156	117	79.8	62.0	62.2	59.2	40.18	16
17	33.58	29.68	26.08	22.58	61.2	157	120	79.9	61.2	66.0	59.6	39.38	17
18	33.48	29.48	25.88	22.48	64.2	156	118	78.7	64.5	63.3	59.2	38.88	18
19	33.38	29.38	25.78	22.38	67.9	155	117	79.1	66.9	62.1	59.3	38.38	19
20	33.18	29.28	25.68	22.38	70.8	155	117	77.5	66.2	61.3	56.6	37.88	20
21	33.08	29.08	25.48	22.28	75.2	155	116	78.0	65.5	62.8	53.7	37.38	21
22	32.88	28.98	25.38	22.28	81.7	152	113	77.9	64.4	61.7	53.08	36.48	22
23	32.78	28.88	25.28	22.18	87.4	153	114	75.9	66.1	60.5	52.48	35.98	23
24	32.68	28.68	25.18	22.38	92.0	152	114	75.6	67.9	60.8	51.78	35.48	24
25	32.58	28.58	24.98	22.48	96.8	148	114	75.7	66.0	61.8	50.98	35.08	25
26	32.48	28.48	24.88	22.58	100	147	111	76.3	65.1	61.5	50.88	34.58	26
27	32.28	28.38	24.78	22.78	106	150	109	75.7	64.2	61.4	50.38	34.38	27
28	32.18	28.18	24.58	22.98	113	149	105	75.0	65.5	60.6	49.88	33.88	28
29	32.08		24.48	23.68	119	147	102	75.1	66.6	60.1	49.28	33.68	29
30	31.88		24.38	24.68	124	142	98.3	74.2	68.1	60.8	48.68	33.18	30
31	31.78		24.28		129		98.4	72.7		60.1		32.78	31
TOTAL	1 044.9	836.0	808.5	688.9	2 088.5	4 487	3 724.7	2 589.6	1 993.7	1 942.6	1 695.8	1 237.1	TOTAL
MEAN	33.7	29.9	26.1	23.0	67.4	150	120	82.9	66.5	62.7	56.5	39.9	MEAN
MAX	36.2	31.6	28.0	24.6	129	157	138	96.3	74.5	66.0	62.0	47.9	MAX
MIN	31.7	28.1	24.2	22.1	26.8	132	98.3	72.7	61.2	60.1	48.6	32.7	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 83.3
MAXIMUM DAILY, 157 ON JUN 14
MINIMUM DAILY, 22.18 ON APR 23
MAXIMUM INSTANTANEOUS,
158 AT 18:10 CST ON JUN 13

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 51 23 N
LONG 95 07 12 W
DRAINAGE AREA, 8 880 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	90 300	JUL	322 000
FEB	72 200	AUG	222 000
MAR	69 900	SEP	172 000
APR	59 500	OCT	168 000
MAY	180 000	NOV	147 000
JUN	388 000	DEC	107 000

TOTAL DISCHARGE, 2 000 000 dam³

HESPELER FLOODWAY NEAR ROSENFELD - STATION NO 050C016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	9.97 B	0.235	0.063	0.310	0	0	0	---	---	1
2	---	---	0 B	9.23 B	0.212	0.085	0.294	0	0	0	---	---	2
3	---	---	0.005B	15.1 B	0.157	0.089	0.292	0	0	0	---	---	3
4	---	---	0.100B	21.0 B	0.172	0.152	0.262	0	0	0	---	---	4
5	---	---	1.00 B	26.9 B	0.157	0.208	0.240	0	0	0	---	---	5
6	---	---	0.750B	42.9 B	0.134	0.218	0.255	0	0	0	---	---	6
7	---	---	0.500B	53.4 B	0.108	0.220	0.253	0	0	0	---	---	7
8	---	---	0.250B	38.4	0.082	0.226	0.230	0	0	0	---	---	8
9	---	---	0.100B	28.7	0.063	0.215	0.204	0	0	0	---	---	9
10	---	---	0.050B	18.8 E	0.057	0.219	0.188	0	0	0	---	---	10
11	---	---	0.025B	4.80 A	0.050	0.216	0.104	0	0	0	---	---	11
12	---	---	3.90 B	4.20 E	0.047	0.207	0.085	0	0	0	---	---	12
13	---	---	7.00 B	3.61 E	0.052	0.216	0.052	0	0	0	---	---	13
14	---	---	6.33 B	3.01 E	0.048	0.202	0.041	0	0	0	---	---	14
15	---	---	5.87 B	2.41 E	0.048	0.210	0.026	0	0	0	---	---	15
16	---	---	3.06 B	1.82 E	0.049	0.195	0.015	0	0	0	---	---	16
17	---	---	2.29 B	1.22 E	0.044	0.187	0.004	0	0	0	---	---	17
18	---	---	1.46 B	0.623A	0.039	0.172	0	0	0	0	---	---	18
19	---	---	1.19 B	0.490	0.029	0.171	0	0	0	0	---	---	19
20	---	---	0.988B	0.404	0.027	0.188	0	0	0	0	---	---	20
21	---	---	0.897B	0.339	0.042	0.195	0	0	0	0	---	---	21
22	---	---	0.722B	0.304	0.073	0.229	0	0	0	0	---	---	22
23	---	---	0.617B	0.352	0.081	0.218	0	0	0	0	---	---	23
24	---	---	0.544B	0.361	0.074	0.214	0	0	0	0	---	---	24
25	---	---	0.555B	0.307	0.068	0.220	0	0	0	0	---	---	25
26	---	---	0.649B	0.270	0.055	0.212	0	0	0	0	---	---	26
27	---	---	0.539B	0.270	0.053	0.224	0	0	0	0	---	---	27
28	---	---	0.631B	0.290	0.054	0.298	0	0	0	0	---	---	28
29	---		0.626B	0.291	0.057	0.328	0	0	0	0	---	---	29
30	---		0.884B	0.264	0.073	0.338	0	0	0	0	---	---	30
31	---		2.20 B		0.078		0	0		0		---	31
TOTAL	---	---	43.043	288.035	2.556	5.159	2.815	0	0	0	---	---	TOTAL
MEAN	---	---	1.39	9.60	0.082	0.205	0.091	0	0	0	---	---	MEAN
MAX	---	---	7.00	53.4	0.235	0.336	0.310	0	0	0	---	---	MAX
MIN	---	---	0	0.264	0.027	0.083	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.40
MAXIMUM DAILY, 53.4B ON APR 7
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
62.0B AT 11:00 CST ON APR 7

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 43 15 10 N
LONG 97 33 00 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	243
FEB	---	AUG	0
MAR	3 720	SEP	0
APR	24 900	OCT	0
MAY	221	NOV	---
JUN	532	DEC	---

TOTAL DISCHARGE, 29 600 dam³

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO 05DA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0 B	0 B	0 B	0.963 B	0.159	0.007	0.201	0.001	0	0	0	0 B	1
2	0 B	0 B	0 B	1.53 B	0.082	0.006	0.210	0	0	0	0	0 B	2
3	0 B	0 B	0 B	1.67 B	0.024	0.005	0.218	0	0	0	0	0 B	3
4	0 B	0 B	0 B	2.15 B	0.010	0.004	0.173	0	0	0	0	0 B	4
5	0 B	0 B	0 B	1.93 B	0.008	0.004	0.108	0	0	0	0	0 B	5
6	0 B	0 B	0 B	2.27 B	0.009	0.003	0.085	0	0	0	0	0 B	6
7	0 B	0 B	0 B	1.98 B	0.007	0.003	0.082	0	0	0	0	0 B	7
8	0 B	0 B	0 B	1.93 B	0.006	0.002	0.027	0	0	0	0	0 B	8
9	0 B	0 B	0 B	1.47 B	0.005	0.002	0.008	0	0	0	0	0 B	9
10	0 B	0 B	0 B	1.16 B	0.010	0.003	0.005	0	0	0	0	0 B	10
11	0 B	0 B	0 B	0.963	0.008	0.002	0.004	0	0	0	0	0 B	11
12	0 B	0 B	0.0048	0.850	0.085	0.002	0.004	0	0	0	0	0 B	12
13	0 B	0 B	0.1258	0.793	0.228	0.001	0.003	0	0	0	0	0 B	13
14	0 B	0 B	0.1568	0.708	0.201	0.001	0.002	0	0	0	0	0 B	14
15	0 B	0 B	0.4538	0.510	0.161	0.001	0.002	0	0	0	0	0 B	15
16	0 B	0 B	0.1508	0.510	0.156	0.001	0.002	0	0	0	0	0 B	16
17	0 B	0 B	0.1278	0.453	0.212	0.001	0.002	0	0	0	0	0 B	17
18	0 B	0 B	0.1138	0.396	0.246	0	0.002	0	0	0	0	0 B	18
19	0 B	0 B	0.0858	0.425	0.193	0.003	0.003	0	0	0	0	0 B	19
20	0 B	0 B	0.0578	0.396	0.147	0.004	0.003	0	0	0	0	0 B	20
21	0 B	0 B	0.0288	0.396	0.119	0.003	0.002	0	0	0	0 B	0 B	21
22	0 B	0 B	0.0148	0.340	0.105	0.014	0.002	0	0	0	0 B	0 B	22
23	0 B	0 B	0.0118	0.340	0.091	0.031	0.002	0	0	0	0 B	0 B	23
24	0 B	0 B	0.0088	0.311	0.079	0.024	0.002	0	0	0	0 B	0 B	24
25	0 B	0 B	0.0068	0.180	0.045	0.006	0.002	0	0	0	0 B	0 B	25
26	0 B	0 B	0.0038	0.396	0.037	0.004	0.002	0	0	0	0 B	0 B	26
27	0 B	0.0028	0.0088	0.311	0.042	0.003	0.002	0	0	0	0 B	0 B	27
28	0 B	0 B	0.0088	0.311	0.031	0.002	0.002	0	0	0	0 B	0 B	28
29	0 B		0.0118	0.256	0.023	0.001	0.001	0	0	0	0 B	0 B	29
30	0 B		0.0788	0.198	0.011	0.004	0.002	0	0	0	0 B	0 B	30
31	0 B		1.05 B		0.010		0.001	0		0		0 B	31
TOTAL	0	0.002	2.451	28.088	2.552	0.147	1.144	0.001	0	0	0	0	TOTAL
MEAN	0	0	0.080	0.869	0.082	0.005	0.037	0	0	0	0	0	MEAN
MAX	0	0.002	1.05	2.27	0.246	0.031	0.218	0.001	0	0	0	0	MAX
MIN	0	0	0	0.150	0.006	0	0.001	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.089
MAXIMUM DAILY, 2.270 ON APR 6
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
4.390 AT 11:30 CST ON APR 2

SUMMARY FOR THE YEAR 1983

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 57 10 N
LONG 99 25 35 W
DRAINAGE AREA, 68.1 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	98.8
FEB	0.17	AUG	0.09
MAR	215	SEP	0
APR	2 250	OCT	0
MAY	220	NOV	0
JUN	12.7	DEC	0

TOTAL DISCHARGE, 2 800 dam³

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1908	1.588	1.28	0.894	2.57	0.127	0.130	0.174	---	---	1
2	---	---	0.1948	4.358	1.18	0.687	2.68	0.128	0.140	0.185	---	---	2
3	---	---	0.1998	10.8 B	1.12	0.720	2.77	0.171	0.155	0.244	---	---	3
4	---	---	0.2028	21.5 B	1.05	0.747	2.88	0.201	0.188	0.253	---	---	4
5	---	---	0.2048	38.9 B	1.04	0.828	2.56	0.200	0.146	0.230	---	---	5
6	---	---	0.1988	49.4 B	1.09	0.809	2.18	0.203	0.143	0.284	---	---	6
7	---	---	0.1948	55.5 B	1.09	0.748	1.83	0.178	0.143	0.268	---	---	7
8	---	---	0.1978	52.1	1.04	0.683	1.59	0.164	0.137	0.257	---	---	8
9	---	---	0.1998	40.2	0.999	0.659	1.36	0.171	0.133	0.252	---	---	9
10	---	---	0.1958	30.5	0.982	0.657	1.31	0.171	0.133	0.245	---	---	10
11	---	---	0.2068	22.8	0.943	0.599	1.21	0.179	0.134	0.248	---	---	11
12	---	---	0.1958	17.5	0.927	0.529	1.13	0.201	0.125	0.248	---	---	12
13	---	---	0.1978	11.8	0.937	0.540	1.08	0.189	0.122	0.267	---	---	13
14	---	---	0.1848	7.58	1.13	0.545	0.951	0.188	0.125	0.314	---	---	14
15	---	---	0.1828	5.84	1.16	0.809	0.886	0.188	0.126	0.321	---	---	15
16	---	---	0.1638	5.43	1.08	0.812	0.826	0.158	0.132	0.285	---	---	16
17	---	---	0.1778	4.95	1.02	0.578	0.773	0.159	0.145	0.258	---	---	17
18	---	---	0.1688	4.35	0.984	0.499	0.727	0.162	0.162	0.251	---	---	18
19	---	---	0.1758	4.00	0.940	0.462	0.731	0.181	0.154	0.240	---	---	19
20	---	---	0.1758	3.78	0.974	0.476	0.700	0.253	0.144	0.255	---	---	20
21	---	---	0.1788	3.74	1.05	1.80	0.738	0.357	0.157	0.253	---	---	21
22	---	---	0.1808	3.16	1.02	4.05	0.749	0.221	0.156	0.252	---	---	22
23	---	---	0.1738	2.98	0.971	8.20	0.683	0.165	0.157	0.252	---	---	23
24	---	---	0.1778	2.81	0.935	8.48	0.648	0.142	0.155	0.255	---	---	24
25	---	---	0.1878	2.24	0.925	8.28	0.613	0.144	0.147	0.244	---	---	25
26	---	---	0.1538	2.00	0.895	11.9	0.571	0.189	0.146	0.332	---	---	26
27	---	---	0.1538	1.84	0.868	9.12	0.434	0.171	0.145	0.362	---	---	27
28	---	---	0.1548	1.61	0.827	5.01	0.389	0.152	0.142	0.283	---	---	28
29	---		0.1578	1.45	0.788	3.27	0.340	0.138	0.145	0.268	---	---	29
30	---		0.1548	1.40	0.783	2.84	0.314	0.137	0.148	0.277	---	---	30
31	---		0.3788		0.731		0.161	0.134		0.281		---	31
TOTAL	---	---	5.838	416.71	30.719	73.424	36.413	5.451	4.307	8.214	---	---	TOTAL
MEAN	---	---	0.188	13.9	0.991	2.45	1.17	0.176	0.144	0.265	---	---	MEAN
MAX	---	---	0.378	55.5	1.28	11.9	2.68	0.357	0.188	0.362	---	---	MAX
MIN	---	---	0.153	1.40	0.731	0.462	0.151	0.127	0.122	0.174	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.37
MAXIMUM DAILY, 55.5B ON APR 7
MINIMUM DAILY, 0.122 ON SEP 13
MAXIMUM INSTANTANEOUS,
55.3B AT 22:50 CST ON APR 7

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 35 N
LONG 97 02 10 W
DRAINAGE AREA, 1 140 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 150
FEB	---	AUG	471
MAR	504	SEP	372
APR	35 000	OCT	710
MAY	2 850	NOV	---
JUN	6 340	DEC	---

TOTAL DISCHARGE, 50 200 dam³

ISLAND LAKE NEAR ISLAND LAKE - STATION NO. 04AC002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	228.026	228.613	228.722	228.686	228.428	228.226	228.146	228.121	1
2	---	---	---	---	228.040	228.629	228.718	228.678	228.422	228.221	228.144	228.116	2
3	---	---	---	---	228.068	228.639	228.721	228.673	228.372	228.214	228.143	228.120	3
4	---	---	---	---	228.082	228.641	228.716	228.664	228.396	228.210	228.139	228.114	4
5	---	---	---	---	228.087	228.645	228.714	228.647	228.404	228.184	228.113	228.113	5
6	---	---	---	---									
7	---	---	---	227.830A	228.110	228.648	228.724	228.643	228.393	228.175	228.125	228.112	6
8	---	---	---	227.926	228.123	228.659	228.725	228.612	228.386	228.189	228.128	228.110	7
9	---	---	---	227.924	228.138	228.663	228.732	228.610	228.385	228.186	228.130	228.107E	8
10	---	---	---	227.918	228.151	228.668	228.733	228.609	228.385	228.188	228.126	228.104	9
11	228.143A	---	---	227.912	228.186	228.670	228.738	228.600	228.352	228.185	228.126	228.104	10
12	---	---	---	227.907	228.183	228.678	228.743	228.596	228.342	228.169	228.128	228.106	11
13	---	---	---	227.905	228.205	228.684	228.749	228.593	228.340	228.198	228.132	228.102	12
14	---	---	---	227.903	228.241	228.685	228.752	228.564	228.333	228.195	228.133	228.101	13
15	---	---	---	227.901	228.261	228.684	228.751	228.565	228.326	228.190	228.130	228.101E	14
16	---	---	---	227.897	228.278	228.686	228.760	228.548	228.319	228.191	228.127	228.098	15
17	---	---	---	227.894	228.300	228.699	228.765	228.544	228.315	228.159	228.127	228.095	16
18	---	---	---	227.894	228.317	228.706	228.753	228.534	228.316	228.116	228.130	228.095	17
19	---	---	---	227.893	228.332	228.707	228.753	228.527	228.298	228.186	228.129	228.091	18
20	---	---	---	227.889	228.348	228.707	228.753	228.476	228.268	228.172	228.127	228.090	19
21	---	---	---	227.887	228.370	228.711	228.767	228.520	228.271	228.171	228.126	228.088	20
22	---	---	---	227.887	228.391	228.707	228.768	228.511	228.258	228.164	228.118	228.086	21
23	---	---	---	227.887	228.421	228.705	228.738	228.491	228.272	228.169	228.124	228.085	22
24	---	---	---	227.889	228.444	228.710	228.735	228.488	228.276	228.167	228.128	228.083	23
25	---	---	---	227.892	228.465	228.717	228.730	228.480	228.257	228.159	228.097	228.082	24
26	---	---	---	227.899	228.488	228.718	228.735	228.484	228.264	228.158	228.131	228.082	25
27	---	---	---	227.920	228.510	228.723	228.733	228.478	228.261	228.158	228.123	228.078	26
28	---	---	---	227.947	228.530	228.728	228.724	228.468	228.262	228.165	228.126	228.077	27
29	---	---	---	227.988	228.548	228.728	228.713	228.480	228.226	228.127	228.131	228.072	28
30	---	---	---	227.984	228.566	228.727	228.707	228.452	228.228	228.151	228.123	228.071	29
31	---	---	---	228.007	228.584	228.725	228.704	228.441	228.235	228.151	228.128	228.070	30
					228.605		228.691	228.436		228.151		228.068	31
MEAN	---	---	---	---	228.302	228.687	228.733	228.551	228.310	228.175	228.128	228.095	MEAN
MAX	---	---	---	---	228.605	228.728	228.780	228.686	228.428	228.244	228.146	228.121	MAX
MIN	---	---	---	---	228.026	228.613	228.691	228.436	228.226	228.118	228.097	228.068	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 228.780 ON JUL 15
MINIMUM DAILY, 227.887 ON APR 20
MAXIMUM INSTANTANEOUS,
228.780 AT 13:46 CST ON JUN 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 52 00 N
LONG 94 40 25 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

WATER LEVELS ARE REFERRED TO MANITOBA-ONTARIO BOUNDARY SURVEY DATUM

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 05AC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	80.4E	72.0E	64.0E	54.7E	84.0	169	194	188	130	91.0	78.9	74.0	1
2	80.3E	72.1E	63.7E	54.6E	86.6	173	193	184	128	90.3	78.9	75.3	2
3	80.2E	71.6E	63.4E	54.1E	89.0	176	193	182	118	89.1	78.7	76.8	3
4	80.2E	71.6E	63.1E	53.4E	91.0	176	182	181	123	88.5	76.3	76.0	4
5	80.0E	71.3E	63.0E	53.0E	93.0	176	183	177	126	86.6	74.9	74.9	5
6	79.9E	70.9E	62.9E	53.3A	94.6	177	184	174	122	83.3	75.4	74.9	6
7	79.7E	70.6E	62.2E	53.9	96.2	178	184	169	121	85.3	76.1	74.6	7
8	79.4E	70.3E	61.9E	53.9	98.2	178	184	168	119	84.9	77.1	74.0	8
9	79.3E	70.0E	61.8E	53.1	98.1	180	185	168	117	85.2	78.1	73.9	9
10	79.0E	69.7E	61.3E	51.8	98.8	181	186	168	116	84.7	77.8	73.9	10
11	78.7A	69.4E	61.0E	50.9	98.5	184	189	168	115	85.3	78.8	76.1	11
12	78.6E	69.1E	60.7E	50.6	97.7	185	200	165	112	84.6	77.4	73.7	12
13	78.1E	68.8E	60.4E	50.3	97.7	185	200	159	111	86.2	77.8	74.0	13
14	77.8E	68.5E	60.1E	50.1	97.0	185	200	159	109	85.5	77.1	73.6	14
15	77.5E	68.2E	59.8E	49.7	100	186	202	158	108	85.6	76.9	73.1	15
16	77.3E	67.9E	59.5E	49.3	104	189	201	156	107	81.2	75.8	72.7	16
17	76.9E	67.6E	59.3E	49.3	108	189	201	152	105	79.6	77.1	72.7	17
18	76.6E	67.3E	58.9E	49.2	111	190	201	151	104	82.4	76.8	72.3	18
19	76.3E	67.0E	58.6E	48.8	114	190	201	140	98.9	82.8	76.7	72.1	19
20	76.0E	66.7E	58.3E	48.5	116	191	199	140	98.8	83.7	76.9	71.8	20
21	75.7E	66.4E	58.0E	48.5	122	199	200	147	95.5	81.7	75.8	71.8	21
22	75.4E	66.1E	57.7E	48.6	126	199	197	143	94.3	82.5	76.3	71.4	22
23	75.1E	65.8E	57.4E	48.6	133	197	197	143	89.4	82.2	76.8	71.2	23
24	74.8E	65.5E	57.1E	48.1	138	193	197	143	96.8	81.0	72.9	71.0	24
25	74.5E	65.2E	56.8E	48.9	143	193	198	142	97.9	80.9	77.3	71.0	25
26	74.3E	64.9E	56.5E	53.3	147	194	196	140	97.1	80.9	77.8	70.6	26
27	73.9E	64.6E	56.2E	55.2	151	194	194	138	97.2	79.0	77.6	70.5	27
28	73.6E	64.3E	55.9E	57.5	155	195	192	137	91.1	78.0	77.2	69.9	28
29	73.3E		55.6E	58.3	160	195	190	135	91.7	78.9	76.3	69.6	29
30	73.0E		55.3E	61.8	164	195	190	133	92.7	78.9	76.8	68.9	30
31	72.7E		55.0E		167		187	131		78.9		68.3	31
TOTAL	2 388.1	1 912.6	1 898.5	1 980.3	3 359.0	5 972	6 080	4 939	3 344.3	2 580.6	2 310.9	2 283.7	TOTAL
MEAN	77.0	68.4	58.5	52.0	108	199	196	159	108	83.4	77.0	72.7	MEAN
MAX	80.4	72.4	64.0	61.8	167	200	202	188	130	91.0	78.9	76.8	MAX
MIN	72.7	64.3	55.0	48.5	84.0	169	187	131	91.1	78.9	72.9	68.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 104
MAXIMUM DAILY, 202 ON JUL 15
MINIMUM DAILY, 48.5 ON APR 20
MAXIMUM INSTANTANEOUS,
208 AT 13:46 CST ON JUL 15

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 03 26 N
LONG 94 39 34 W
DRAINAGE AREA, 14 000 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	206 000	JUL	525 000
FEB	165 000	AUG	416 000
MAR	164 000	SEP	290 000
APR	135 000	OCT	223 000
MAY	290 000	NOV	200 000
JUN	681 000	DEC	195 000

TOTAL DISCHARGE, 3 280 000 dam³

JACKFISH LAKE ABOVE JACKFISH LAKE DAM - STATION NO. 05LJ007

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	895.499	895.703	895.112	895.126	895.187	---	---	1
2	---	---	---	---	---	---	895.730	895.127	895.123	895.190	---	---	2
3	---	---	---	---	---	---	895.708	895.127	895.127	895.145	---	---	3
4	---	---	---	---	---	---	895.784	895.126	895.121	895.072	---	---	4
5	---	---	---	---	894.681	---	895.782	895.129	895.130	895.005	---	---	5
6	---	---	---	---	894.632	---	895.727	895.129	895.187	894.935	---	---	6
7	---	---	---	---	894.578	---	895.694	895.142	895.197	894.856	---	---	7
8	---	---	---	---	894.618	---	895.651	895.142	895.197	894.770	---	---	8
9	---	---	---	---	894.658	---	895.619	895.142	895.180	894.688	---	---	9
10	---	---	---	---	894.688	---	895.578	895.142	895.172	894.642	---	---	10
11	---	---	---	---	894.718	---	895.545	895.139	895.170	894.627	---	---	11
12	---	---	---	---	894.727	---	895.523	895.138	895.170	894.633	---	---	12
13	---	---	---	---	894.783	---	895.471	895.142	895.172	894.630	---	---	13
14	---	---	---	---	894.801	---	895.420	895.142	895.170	894.627	---	---	14
15	---	---	---	---	894.818	---	895.362	895.139	895.170	894.612	---	---	15
16	---	---	---	---	894.843	---	895.310	895.133	895.170	894.584	---	---	16
17	---	---	---	---	894.862	---	895.270	895.136	895.172	894.582	---	---	17
18	---	---	---	---	894.868	---	895.218	895.136	895.182	894.565	---	---	18
19	---	---	---	---	894.838	---	895.167	895.133	895.176	894.589	---	---	19
20	---	---	---	---	894.867	---	895.102	895.127	895.170	894.582	---	---	20
21	---	---	---	---	895.088	---	895.067	895.127	895.170	894.635	---	---	21
22	---	---	---	---	895.184	---	895.063	895.127	895.176	894.616	---	---	22
23	---	---	894.310	---	895.243	895.819	895.068	895.127	895.172	894.611	---	---	23
24	---	---	---	---	895.301	895.785	895.078	895.127	895.172	894.614	---	---	24
25	---	---	---	---	895.348	895.772	895.084	895.130	895.172	894.614	---	---	25
26	---	---	---	---	895.388	895.791	895.080	895.132	895.170	894.614	---	---	26
27	---	---	---	---	895.401	895.801	895.080	895.139	895.172	---	---	---	27
28	---	---	---	---	895.435	895.788	895.093	895.142	895.176	---	---	---	28
29	---	---	---	---	895.462	895.761	895.093	895.142	895.172	---	---	---	29
30	---	---	---	---	895.476	895.730	895.106	895.139	895.173	---	---	---	30
31	---	---	---	---	895.487		895.109	895.136		---	---	---	31
MEAN	---	---	---	---	---	---	895.284	895.135	895.164	---	---	---	MEAN
MAX	---	---	---	---	---	---	895.784	895.142	895.182	---	---	---	MAX
MIN	---	---	---	---	---	---	895.067	895.112	895.121	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 23 56 N
LONG 100 48 06 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

JACKSON CREEK NEAR MELITA - STATION NO. 05MP015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.5844	0.311	0.002	0	0	0	0	---	---	1
2	---	---	0 B	1.04 B	0.290	0.004	0	0	0	0	---	---	2
3	---	---	0 B	0.9210	0.213	0.005	0	0	0	0	---	---	3
4	---	---	0 B	1.28 B	0.185	0.010	0	0	0	0	---	---	4
5	---	---	0 B	1.23 B	0.184	0.010	0	0	0	0	---	---	5
6	---	---	0 B	0.9628	0.122	0.008	0	0	0	0	---	---	6
7	---	---	0 B	0.8298	0.085	0.008	0	0	0	0	---	---	7
8	---	---	0 B	0.6018	0.076	0.007	0	0	0	0	---	---	8
9	---	---	0 B	1.10 B	0.080	0.008	0	0	0	0	---	---	9
10	---	---	0 B	1.24 B	0.049	0.008	0	0	0	0	---	---	10
11	---	---	0 B	0.7868	0.038	0.007	0	0	0	0	---	---	11
12	---	---	0 B	1.48 B	0.036	0.005	0	0	0	0	---	---	12
13	---	---	0 B	1.85 B	0.044	0.003	0	0	0	0	---	---	13
14	---	---	0 B	1.90 B	0.043	0.002	0	0	0	0	---	---	14
15	---	---	0 B	1.45	0.037	0.001	0	0	0	0	---	---	15
16	---	---	0 B	1.17	0.035	0	0	0	0	0	---	---	16
17	---	---	0 B	0.835	0.031	0	0	0	0	0	---	---	17
18	---	---	0 B	0.668	0.029	0	0	0	0	0	---	---	18
19	---	---	0 B	0.540	0.031	0	0	0	0	0	---	---	19
20	---	---	0 B	0.392	0.033	0	0	0	0	0	---	---	20
21	---	---	0 B	0.305	0.037	0	0	0	0	0	---	---	21
22	---	---	0 B	0.389	0.036	0	0	0	0	0	---	---	22
23	---	---	0.0018	0.201	0.034	0	0	0	0	0	---	---	23
24	---	---	0.0018	0.481	0.031	0	0	0	0	0	---	---	24
25	---	---	0.0018	0.770	0.032	0	0	0	0	0	---	---	25
26	---	---	0.0028	1.10	0.018	0	0	0	0	0	---	---	26
27	---	---	0.0088	1.08	0.013	0	0	0	0	0	---	---	27
28	---	---	0.0188	0.813	0.008	0	0	0	0	0	---	---	28
29	---		0.0238	0.570	0.008	0	0	0	0	0	---	---	29
30	---		0.1068	0.618	0.004	0	0	0	0	0	---	---	30
31	---		0.4438		0.004		0	0		0	---	---	31
TOTAL	---	---	0.889	36 784	3.081	0.085	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.022	0.891	0.088	0.003	0	0	0	0	---	---	MEAN
MAX	---	---	0.443	1.85	0.311	0.010	0	0	0	0	---	---	MAX
MIN	---	---	0	0.288	0.002	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.121
MAXIMUM DAILY, 1.900 ON APR 13
MINIMUM DAILY, 00 00 MAR 1
MAXIMUM INSTANTANEOUS,
3.200 AT 07:34 CST ON APR 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 10 00 N
LONG 100 07 50 W
DRAINAGE AREA, 451 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	97.8	SEP	0
APR	3 310	OCT	0
MAY	170	NOV	---
JUN	0.21	DEC	---

TOTAL DISCHARGE, 2 550 dam³

JACKSON LAKE NEAR SYDNEY - STATION NO. 05LL005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	356.082	355.902	355.782	---	---	---	1
2	---	---	---	---	---	---	356.087E	355.897E	355.782E	---	---	---	2
3	---	---	---	---	356.097	---	356.082	355.882	355.782	355.667	355.742	---	3
4	---	---	---	---	---	---	356.082	355.882E	355.723	355.657E	---	---	4
5	---	---	---	---	---	---	356.048E	355.882	---	355.666	355.762	---	5
6	---	---	---	---	---	---	356.045E	---	---	355.606E	---	---	6
7	---	---	---	---	---	356.047	356.042	---	---	355.671	---	---	7
8	---	---	---	---	---	356.027	356.042E	---	---	355.681E	---	---	8
9	---	356.022	356.052	---	---	356.047	356.042	---	---	355.682	---	---	9
10	---	---	---	---	---	356.047E	356.042E	---	355.692	355.692E	---	---	10
11	---	---	---	---	---	356.047	356.042E	---	355.682	355.692	---	---	11
12	---	---	---	---	---	356.044E	356.042	355.882	355.662E	355.692	---	---	12
13	---	---	---	---	---	356.042	356.032E	355.869E	355.662E	355.693E	---	---	13
14	---	---	---	356.077	---	356.042E	356.022	355.849	355.662	355.692	---	---	14
15	---	---	---	---	---	356.042E	356.022	355.846E	355.662E	---	---	---	15
16	---	---	---	---	---	356.042	356.022	355.847	355.682	---	---	---	16
17	---	---	---	---	---	356.042	356.022E	355.839E	355.682	---	---	---	17
18	---	---	---	---	---	356.042	356.022	355.832E	355.682E	---	---	---	18
19	---	---	---	---	---	356.042	356.022E	355.824	355.682	---	---	---	19
20	---	---	---	---	---	356.047E	356.022	355.782	355.652	---	---	---	20
21	---	---	---	---	---	356.082	356.017E	355.789E	355.682	---	---	355.784	21
22	---	---	---	---	356.082	356.057E	356.012	355.817	355.652E	---	---	---	22
23	---	---	---	---	356.057E	356.062	356.012	355.800E	355.652	---	---	---	23
24	---	---	---	---	356.052	356.058E	356.008E	355.800E	---	---	---	---	24
25	---	---	---	---	356.052	356.067	356.008E	355.792	---	---	---	---	25
26	---	---	---	---	356.047E	356.067	356.002	355.788E	---	---	---	---	26
27	---	---	---	---	356.082	356.062	355.985E	355.787	---	355.722	---	---	27
28	---	---	---	---	---	356.042E	355.988E	355.784E	---	355.732E	---	---	28
29	---		---	---	---	356.042	355.952	355.782	---	355.742	---	---	29
30	---		---	---	---	356.047E	355.962	355.782E	---	---	355.805	---	30
31	---		---		---		355.927E	355.782E		---		---	31
MEAN	---	---	---	---	---	---	356.020	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	356.082	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	355.927	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 52 11 N
LONG 99 02 04 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED SINCE 1960

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.0030B	4.320	1.08	0.774	0.335	0.012	0.037	0	---	---	1
2	---	---	0.0040B	5.020	0.975	0.667	0.458	0.029	0.042	0	---	---	2
3	---	---	0.0080B	8.520	0.866	0.888	0.674	0.020	0.010	0	---	---	3
4	---	---	0.0080B	10.7B	0.778	0.847	1.07	0	0	0	---	---	4
5	---	---	0.0300B	10.5B	0.667	0.574	1.40	0.085	0	0	---	---	5
6	---	---	0.2400B	10.3B	0.596	0.486	1.60	0.008	0	0	---	---	6
7	---	---	1.42B	11.4B	0.530	0.425	1.54	0	0.002	0	---	---	7
8	---	---	2.63B	12.6B	0.482	0.380	1.29	0	0.018	0.005	---	---	8
9	---	---	3.86B	11.5	0.432	0.316	0.822	0	0.029	0.041	---	---	9
10	---	---	4.50B	3.16	0.407	0.482	0.684	0	0.024	0	---	---	10
11	---	---	4.12B	6.66	0.419	0.312	0.538	0	0.052	0	---	---	11
12	---	---	3.60B	8.35	0.473	0.276	0.239	0	0.070	0	---	---	12
13	---	---	3.54B	7.86	0.580	0.332	0.185	0	0.037	0.019	---	---	13
14	---	---	3.40B	8.70	0.767	0.264	0.070	0	0	0.037	---	---	14
15	---	---	3.11B	8.81	1.08	0.317	0.050	0.002	0.015	0.031	---	---	15
16	---	---	2.83B	4.89	0.984	0.281	0.035	0	0.008	0.018	---	---	16
17	---	---	2.48B	4.45	0.821	0.249	0.008	0	0.018	0.020	---	---	17
18	---	---	1.98B	4.11	0.850	0.220	0.007	0	0.019	0.022	---	---	18
19	---	---	1.70B	3.78	0.725	0.188	0.070	0	0.018	0.040	---	---	19
20	---	---	1.62B	3.46	0.857	0.135	0.035	0	0.032	0.048	---	---	20
21	---	---	1.13B	3.13	0.570	0.140	0.035	0	0.058	0.047	---	---	21
22	---	---	0.6500B	2.83	0.482	0.313	0.014	0	0.062	0.036	---	---	22
23	---	---	0.5600B	2.54	0.425	0.318	0.010	0	0.046	0.018	---	---	23
24	---	---	0.2030B	2.25	0.436	0.323	0	0.016	0.036	0.032	---	---	24
25	---	---	0.1700B	2.02	0.558	0.214	0	0	0.002	0.030	---	---	25
26	---	---	0.1500B	1.85	0.774	0.141	0	0.002	0	0.033	---	---	26
27	---	---	0.1420B	1.70	0.805	0.212	0.053	0.004	0	0.007	---	---	27
28	---	---	0.1270B	1.53	0.812	0.254	0.028	0.034	0	0.031	---	---	28
29	---		0.1130B	1.35	0.778	0.225	0.007	0.024	0	0	---	---	29
30	---		0.0100B	1.16	0.895	0.270	0.024	0.021	0	0	---	---	30
31	---		2.64B		0.811		0.014	0.000		0		---	31
TOTAL	---	---	48.048	173.52	21.802	10.432	11.333	0.270	0.682	0.562	---	---	TOTAL
MEAN	---	---	1.55	5.78	0.703	0.348	0.363	0.009	0.020	0.018	---	---	MEAN
MAX	---	---	4.50	12.6	1.08	0.774	1.60	0.085	0.070	0.057	---	---	MAX
MIN	---	---	0.003	1.16	0.407	0.135	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.60
MAXIMUM DAILY, 12.60 ON APR 8
MINIMUM DAILY, 0 ON JUL 24
MAXIMUM INSTANTANEOUS,
14.10 AT 05:10 CST ON APR 8

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 26 N
LONG 96 59 23 W
DRAINAGE AREA, 311 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	979
FEB	---	AUG	24.1
MAR	4 150	SEP	53.0
APR	15 000	OCT	48.6
MAY	1 880	NOV	---
JUN	901	DEC	---

TOTAL DISCHARGE, 23 000 dam³

KENTON CREEK AT KENTON - STATION NO. 05MG005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0.003	0.001	0	0	0	0	---	---	1
2	---	---	0B	0 B	0.002	0.002	0	0	0	0	---	---	2
3	---	---	0B	0 B	0.002	0.002	0	0	0	0	---	---	3
4	---	---	0B	0 B	0.001	0.001	0	0	0	0	---	---	4
5	---	---	0B	0 B	0.001	0.001	0	0	0	0	---	---	5
6	---	---	0B	0.012B	0.001	0.001	0	0	0	0	---	---	6
7	---	---	0B	0.164B	0.001	0.001	0	0	0	0	---	---	7
8	---	---	0B	0.851B	0.001	0	0	0	0	0	---	---	8
9	---	---	0B	1.91 B	0.001	0	0	0	0	0	---	---	9
10	---	---	0B	2.47 B	0.001	0	0	0	0	0	---	---	10
11	---	---	0B	1.88 B	0.001	0	0	0	0	0	---	---	11
12	---	---	0B	0.610B	0.002	0	0	0	0	0	---	---	12
13	---	---	0B	0.287B	0.002	0	0	0	0	0	---	---	13
14	---	---	0B	0.240B	0.002	0	0	0	0	0	---	---	14
15	---	---	0B	0.082	0.001	0	0	0	0	0	---	---	15
16	---	---	0B	0.031	0.001	0	0	0	0	0	---	---	16
17	---	---	0B	0.310	0.001	0	0	0	0	0	---	---	17
18	---	---	0B	0.294	0.001	0	0	0	0	0	---	---	18
19	---	---	0B	1.43	0.003	0	0	0	0	0	---	---	19
20	---	---	0B	1.12	0.002	0	0	0	0	0	---	---	20
21	---	---	0B	0.825	0.003	0	0	0	0	0	---	---	21
22	---	---	0B	0.323	0.003	0	0	0	0	0	---	---	22
23	---	---	0B	0.120	0.002	0	0	0	0	0	---	---	23
24	---	---	0B	0.066	0.002	0	0	0	0	0	---	---	24
25	---	---	0B	0.057	0.002	0	0	0	0	0	---	---	25
26	---	---	0B	0.006	0.002	0	0	0	0	0	---	---	26
27	---	---	0B	0.005	0.002	0	0	0	0	0	---	---	27
28	---	---	0B	0.004	0.002	0	0	0	0	0	---	---	28
29	---		0B	0.004	0.002	0	0	0	0	0	---	---	29
30	---		0B	0.003	0.002	0	0	0	0	0	---	---	30
31	---		0B		0.001		0	0		0		---	31
TOTAL	---	---	0	13.103	0.053	0.009	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0.437	0.002	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	2.47	0.003	0.002	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0.001	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.064
MAXIMUM DAILY, 2.470 ON APR 10
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
2.630 AT 10:45 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 59 24 N
LONG 100 35 33 W
DRAINAGE AREA, 45.6 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	1 130	OCT	0
MAY	4.58	NOV	---
JUN	0.78	DEC	---

TOTAL DISCHARGE, 1 140 dam³

KENTON RESERVOIR NEAR KENTON - STATION NO. 05MG003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	441.256E	441.243E	441.112	440.964	440.895E	440.844	---	1
2	---	---	---	---	---	441.255	441.241	441.107E	440.964E	440.897	440.848E	---	2
3	---	---	---	---	---	441.258E	441.240E	441.102	440.960	440.894E	440.852	---	3
4	---	---	---	---	---	441.263	441.239	441.098E	440.977	440.892	440.852E	---	4
5	---	---	---	---	---	441.263E	441.239E	441.097	440.960E	440.891E	440.852	---	5
6	---	---	---	---	---	441.263	441.239	441.088E	440.962	440.890	440.852E	---	6
7	---	---	---	---	---	441.263E	441.239E	441.082	440.953E	440.889E	440.852	---	7
8	---	---	---	---	---	441.263	441.239	441.072E	440.944	440.888	140.848E	440.822	8
9	---	440.850	440.830	---	---	441.263E	441.240E	441.062	440.942E	440.888E	440.844	---	9
10	---	---	---	---	---	441.263	441.201	441.052E	440.940	440.888	440.843E	---	10
11	---	---	---	---	---	441.275E	441.227E	441.044	440.936E	440.886E	440.842	---	11
12	---	---	---	---	441.278	441.266	441.213	441.030E	440.932	440.882	---	---	12
13	---	---	---	---	---	441.261E	441.206E	441.035	440.926E	440.880E	---	---	13
14	---	---	---	441.186	---	441.256	441.206	441.028E	440.924	440.878	---	---	14
15	---	---	---	---	---	441.252E	441.188E	441.022	440.926E	440.874E	---	---	15
16	---	---	---	---	---	441.250	441.181	441.018E	440.922	440.870	---	---	16
17	---	---	---	---	---	441.246E	441.188E	441.011	440.927E	440.866E	---	---	17
18	---	---	---	---	---	441.242	441.188	441.006E	440.922	440.862	---	---	18
19	---	---	---	---	441.269	441.261E	441.177E	441.001	440.919E	440.862E	---	---	19
20	---	---	---	---	441.269E	441.240	441.180	440.996E	440.917	440.862	---	---	20
21	---	---	---	---	441.280	441.263E	441.180E	440.992	440.910E	440.861E	---	---	21
22	---	---	---	---	441.280E	441.245	441.181	440.988E	440.912	440.860	---	---	22
23	---	---	---	---	441.280	441.246E	441.158E	440.987	440.903E	440.858E	---	---	23
24	---	---	---	---	441.277E	441.235	441.151	440.977E	440.892	440.857	---	---	24
25	---	---	---	---	441.286	441.233E	441.147E	440.967	440.890E	440.857E	---	---	25
26	---	---	---	---	441.278	441.230	441.143	440.957E	440.887	440.857	---	---	26
27	---	---	---	441.083	441.283	441.220E	441.142	440.957	440.884E	440.854E	---	---	27
28	---	---	---	---	441.281E	441.227	441.138	440.956E	440.882	440.852	---	---	28
29	---		---	---	441.280	441.226	441.136E	440.950	440.882E	440.850E	---	---	29
30	---		---	---	441.248E	441.246	441.134	440.950E	440.882	440.849	---	---	30
31	---		---		441.246		441.118E	440.940		440.846E		---	31
MEAN	---	---	---	---	---	441.254	441.183	441.036	440.928	440.872	---	---	MEAN
MAX	---	---	---	---	---	441.283	441.243	441.112	440.968	440.897	---	---	MAX
MIN	---	---	---	---	---	441.222	441.118	440.947	440.882	440.846	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 58 36 N
LONG 100 36 04 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4.360	3.110	2.280	1.810	1.570	196	30.9	6.51	14.0	54.0	22.5	8.990	1
2	4.300	3.060	2.260	1.810	1.550	201	27.9	6.22	13.6	51.9	21.4	8.760	2
3	4.250	3.010	2.230	1.790	1.560	202	25.7	5.87	13.7	46.8	20.5	8.530	3
4	4.170	2.990	2.230	1.790	1.550	200	22.6	6.03	15.2	46.5	20.1	8.300	4
5	4.100	2.940	2.210	1.790	1.530	192	20.5	6.16	16.2	44.9	20.7	8.140	5
6	4.040	2.920	2.190	1.770	1.530	185	19.4	6.21	17.4	43.1	20.1	7.920	6
7	3.970	2.870	2.190	1.770	1.530	176	18.8	5.04	17.7	41.2	20.0	7.730	7
8	3.940	2.850	2.170	1.770	1.510	165	16.9	4.98	18.7	40.4	18.8	7.560	8
9	3.890	2.820	2.160	1.750	1.510	155	15.8	4.67	19.5	39.1	20.4	7.370	9
10	3.840	2.800	2.140	1.750	1.510	146	14.6	5.34	20.6	36.3	19.8	7.170	10
11	3.810	2.750	2.120	1.750	1.490	139	13.6	5.23	23.1	35.4	17.6	7.030	11
12	3.760	2.730	2.100	1.730	1.490	132	13.7	4.75	26.1	34.7	16.7	6.890	12
13	3.730	2.700	2.080	1.730	1.490	126	12.8	4.48	26.4	34.1	16.3	6.700	13
14	3.710	2.680	2.060	1.720	1.470	118	12.8	3.74	26.5	33.1	15.5	6.580	14
15	3.650	2.630	2.030	1.700	1.470	110	12.2	3.33	28.4	31.8	14.6	6.420	15
16	3.630	2.610	2.010	1.700	1.470	100	11.9	3.20	28.6	31.3	14.3 B	6.300	16
17	3.580	2.590	1.990	1.680	1.570	94.1	12.1	2.77	27.4	30.6	13.8 B	6.180	17
18	3.560	2.560	1.990	1.680	1.640	88.5	11.6	2.94	31.1	30.6	13.3 B	6.050	18
19	3.510	2.540	1.970	1.680	2.100	80.3	10.8	4.55	36.1	28.6	12.9 B	5.910	19
20	3.490	2.520	1.970	1.660	2.750	74.3	10.7	8.72	41.9	26.3	12.5 B	5.830	20
21	3.460	2.490	1.950	1.660	3.010	68.2	9.85	11.0	46.2	27.0	12.1 B	5.680	21
22	3.420	2.470	1.950	1.640	9.720	61.9	9.55	13.0	50.5	26.0	11.7 B	5.550	22
23	3.370	2.450	1.920	1.640	15.4	56.0	9.20	13.6	53.0	25.7	11.4 B	5.440	23
24	3.340	2.420	1.920	1.620	18.3 A	51.9	8.60	14.4	55.4	25.1	10.9 B	5.320	24
25	3.320	2.400	1.900	1.620	46.5 E	47.7	8.35	16.2	56.6	25.3	10.6 B	5.270	25
26	3.270	2.370	1.900	1.620	66.3 E	43.4	8.51	17.7	57.9	24.8	10.3 B	5.190	26
27	3.230	2.350	1.880	1.590	86.7 E	40.5	8.23	17.5	57.3	24.6	10.0 B	5.060	27
28	3.200	2.330	1.860	1.590	113 E	37.9	8.08	17.1	57.4	23.7	9.730	4.950	28
29	3.180		1.860	1.570	141 E	35.4	7.70	16.2	55.3	23.4	9.460	4.860	29
30	3.150		1.840	1.570	171 A	33.3	7.23	15.6	54.2	23.5	9.210	4.800	30
31	3.130		1.840		185		7.26	16.8		23.2		4.750	31
TOTAL	113.36	74.56	63.18	50.98	892.62	3 356.4	430.16	267.53	1 003.9	1 041.5	455.98	201.16	TOTAL
MEAN	3.66	2.66	2.04	1.70	28.8	112	13.9	8.63	33.5	33.6	15.2	6.49	MEAN
MAX	4.36	3.11	2.28	1.81	185	202	30.9	17.7	57.9	54.0	22.5	8.99	MAX
MIN	3.13	2.33	1.84	1.57	1.47	33.3	7.23	2.77	13.6	23.2	9.21	4.75	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 21.8
MAXIMUM DAILY, 202 ON JUN 3
MINIMUM DAILY, 1.470 ON MAY 14
MAXIMUM INSTANTANEOUS,
202 AT 12:00 CST ON JUN 3

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 20 40 N
LONG 94 41 00 W
DRAINAGE AREA, 1 900 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	9 790	JUL	37 200
FEB	6 440	AUG	23 100
MAR	5 460	SEP	86 700
APR	4 400	OCT	90 000
MAY	77 100	NOV	39 400
JUN	290 000	DEC	17 400

TOTAL DISCHARGE, 687 000 dam³

KILLARNEY LAKE AT KILLARNEY - STATION NO. 05OA002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	402.295E	402.285E	402.295E	402.506E	402.461	402.381	402.346E	402.225	402.049E	401.994E	401.928E	401.910E	1
2	402.295	402.285	402.295E	402.556E	402.448E	402.371E	402.361E	402.215E	402.052E	401.993E	401.928	401.907E	2
3	402.295E	402.282E	402.294	402.606	402.434E	402.361E	402.354	402.206	402.054E	401.992	401.928E	401.905	3
4	402.295E	402.280E	402.300E	402.618E	402.421	402.361E	402.354E	402.204E	402.057	401.990	401.926E	401.905E	4
5	402.295	402.277E	402.323E	402.628E	402.418E	402.341	402.354E	402.202E	402.049E	401.988E	401.928E	401.905E	5
6	402.292E	402.275	402.336	402.636	402.416E	402.346E	402.355	402.200E	402.023E	401.984E	401.928	401.905E	6
7	402.290E	402.274E	402.330E	402.633E	402.413E	402.347E	402.356E	402.186	402.007	401.982E	401.928E	401.905	7
8	402.287E	402.272	402.328E	402.628E	402.411	402.351	402.361E	402.180E	402.004E	401.980E	401.928E	401.905E	8
9	402.285	402.268	402.326E	402.623E	402.409E	402.348E	402.364E	402.180E	402.002E	401.978	401.926	401.905E	9
10	402.285E	402.276E	402.326	402.618	402.407E	402.346E	402.367	402.172E	401.999E	401.974E	401.925E	401.905E	10
11	402.285E	402.283E	402.344E	402.627E	402.406	402.343E	402.357E	402.163E	401.997	401.971E	401.923E	401.903	11
12	402.285	402.290E	402.351E	402.636	402.421	402.341	402.347E	402.155E	402.007E	401.968	401.920E	401.905E	12
13	402.287E	402.298	402.356	402.631E	402.421E	402.344E	402.336	402.146E	402.017E	401.965E	401.918	401.905E	13
14	402.290E	402.298E	402.371E	402.626	402.421E	402.347E	402.333E	402.137E	402.027	401.963E	401.917E	401.906	14
15	402.292E	402.298E	402.385E	402.621E	402.421	402.351	402.328E	402.129E	402.024E	401.960E	401.917E	401.905E	15
16	402.295	402.298	402.386	402.616E	402.421E	402.331	402.324E	402.120E	402.022E	401.958	401.917	401.905E	16
17	402.295E	402.298E	402.390E	402.611	402.421E	402.331E	402.320	402.112	402.019E	401.956E	401.917E	401.905E	17
18	402.295E	402.298E	402.394E	402.606E	402.421	402.331E	402.310E	402.111E	402.017	401.956E	401.917E	401.905	18
19	402.295E	402.298E	402.398E	402.597E	402.421E	402.331	402.300E	402.100E	402.014E	401.956	401.917E	401.900	19
20	402.295	402.298	402.396	402.581	402.421E	402.336E	402.291	402.108E	402.012E	401.955E	401.917	401.900E	20
21	402.295E	402.298E	402.406E	402.566E	402.421E	402.341E	402.286E	402.107	402.008E	401.953E	401.922E	401.904	21
22	402.295E	402.298E	402.411E	402.541E	402.421	402.349E	402.281E	402.094E	402.007	401.950E	401.927E	401.904E	22
23	402.295	402.296	402.416	402.516E	402.416E	402.361	402.277E	402.079E	402.003E	401.948	401.932	401.904E	23
24	402.295E	402.298E	402.410E	402.491	402.411E	402.351E	402.272	402.067	402.000E	401.946E	401.928E	401.904E	24
25	402.295E	402.298E	402.402	402.464E	402.406	402.351E	402.267E	402.067E	401.997	401.946E	401.926E	401.904	25
26	402.295	402.298E	402.390E	402.478E	402.406E	402.351	402.263	402.067E	401.997E	401.944	401.923E	401.900E	26
27	402.292E	402.296	402.397	402.471	402.403E	402.346E	402.253	402.067E	401.997E	401.943E	401.920E	401.897E	27
28	402.290E	402.297E	402.386E	402.471	402.403E	402.345E	402.247E	402.057	401.997E	401.936E	401.920E	401.884	28
29	402.287E		402.400E	402.468E	402.401	402.342	402.242E	402.060E	401.997	401.933E	401.917E	401.884	29
30	402.285		402.402	402.464E	402.394E	402.345E	402.246E	402.052E	401.996E	401.930	401.912E	401.884E	30
31	402.285E		402.453E		402.387E		402.240E	402.047		401.930E		401.888E	31
MEAN	402.292	402.290	402.371	402.572	402.416	402.347	402.317	402.131	402.015	401.962	401.923	401.903	MEAN
MAX	402.295	402.298	402.453	402.636	402.461	402.381	402.367	402.225	402.057	401.994	401.932	401.910	MAX
MIN	402.285	402.268	402.294	402.464	402.387	402.331	402.240	402.047	401.996	401.930	401.912	401.884	MIN

WATER LEVELS IN METRES

MEAN, 402.211
MAXIMUM DAILY, 402.636 ON APR 6
MINIMUM DAILY, 401.884 ON DEC 28

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 10 30 N
LONG 99 40 12 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KISKITTO LAKE NEAR NORWAY HOUSE - STATION NO 05UB013

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	213.148	213.572	213.695	213.646	213.544	213.585	213.492	213.525	1
2	---	---	---	---	213.155	213.551	213.669	213.646	213.529	213.540	213.479	213.51[illegible]	2
3	---	---	---	---	213.160	213.548	213.650	213.652	213.583	213.506	213.501	213.[illegible]15	3
4	---	---	---	---	213.169	213.583	212.661	213.657	213.520	213.522	213.512	213.504	4
5	---	---	---	---	213.198	213.602	213.671	213.652	213.502	213.556	213.530	213.504A	5
6	---	---	---	---	213.187	213.600	213.563	213.640	213.483	213.546	213.506	---	6
7	---	---	---	213.125A	213.184	213.597	213.534	213.640	213.496	213.536	213.479	---	7
8	---	---	---	213.126	213.201	213.611	213.527	213.619	213.522	213.535	213.510	---	8
9	---	---	---	213.116	213.213	213.614	213.532	213.616	213.485	213.536	213.502	---	9
10	---	---	---	213.112	213.232	213.630	213.546	213.613	213.469	213.530	213.498	---	10
11	---	---	---	213.104	213.267	213.622	213.571	213.605	213.501	213.511	213.506	---	11
12	---	---	---	213.107	213.285	213.625	213.593	213.604	213.501	213.518	213.500	---	12
13	213.206A	---	---	213.111	213.282	213.631	213.605	213.621	213.502	213.519	213.515	---	13
14	---	---	---	213.113	213.300	213.621	213.595	213.598	213.498	213.505	213.513	---	14
15	---	---	---	213.106	213.335	213.601	213.586	213.594	213.496	213.516	213.503	---	15
16	---	---	---	213.099	213.339	213.615	213.627	213.589	213.486	213.505	213.513	---	16
17	---	---	---	213.104	213.354	213.610	213.661	213.586	213.528	213.506	213.521	---	17
18	---	---	---	213.109	213.373	213.604	213.648	213.589	213.509	213.510	213.518	---	18
19	---	---	---	213.102	213.401	213.588	213.661	213.597	213.574	213.520	213.525	---	19
20	---	---	---	213.096	213.416	213.587	213.633	213.593	213.554	213.529	213.522	---	20
21	---	---	---	213.113	213.442	213.596	213.635	213.571	213.547	213.510	213.520	---	21
22	---	---	---	213.104	213.462	213.575	213.661	213.557	213.554	213.510	213.526	---	22
23	---	---	---	213.104	213.494	213.584	213.654	213.570	213.572	213.518	213.529	---	23
24	---	---	---	213.100	213.516	213.586	213.661	213.558	213.571	213.510	213.532	---	24
25	---	---	---	213.098	213.520	213.547	213.648	213.555	213.561	213.510	213.536	---	25
26	---	---	---	213.114	213.535	213.552	213.648	213.560	213.552	213.504	213.533	---	26
27	---	---	---	213.122	213.561	213.590	213.684	213.548	213.542	213.511	213.539	---	27
28	---	---	---	213.128	213.553	213.584	213.644	213.562	213.555	213.512	213.527	---	28
29	---	---	---	213.139	213.543	213.579	213.619	213.550	213.564	213.511	213.523	---	29
30	---	---	---	213.139	213.567	213.557	213.620	213.551	213.551	213.511	213.522	---	30
31	---	---	---		213.576		213.641	213.558		213.505		---	31
MEAN	---	---	---	---	213.355	213.582	213.606	213.583	213.531	213.523	213.515	---	MEAN
MAX	---	---	---	---	213.576	213.631	213.684	213.657	213.593	213.556	213.539	---	MAX
MIN	---	---	---	---	213.148	213.547	213.557	213.548	213.469	213.504	213.479	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 213.684 ON JUL 27

MAXIMUM INSTANTANEOUS,
213.814 AT 11 45 CST ON JUL 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 18 10 N
LONG 98 26 20 W

A - MANUAL GAUGE

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN HYDRO EXT)

KISKITTOGISU LAKE NEAR NORWAY HOUSE - STATION NO 05UB007

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.173	216.087	216.041	216.038	216.039A	217.405	217.961	217.645	217.574	217.322	---	---	1
2	216.176	216.086	216.044	216.033	216.875	217.438	217.808	217.696	217.588	---	---	---	2
3	216.171	216.079	216.038	216.027	216.826	217.370	217.824	217.706	217.615	---	---	---	3
4	216.179	216.089	216.039	216.012	216.974	217.341	217.411	217.722	217.485	---	---	---	4
5	216.175	216.103	216.043	216.029	217.069	217.386	217.420	217.657	217.494	---	---	---	5
6	216.176	216.086	216.031	216.032	217.069	217.360	217.535	217.648	217.497	---	---	---	6
7	216.175	216.086	216.034	216.036	217.078	217.414	217.801	217.618	217.486	---	---	---	7
8	216.179	216.100	216.045	216.041	217.138	217.496	217.570	217.601	217.471	---	---	---	8
9	216.182	216.088	216.040	216.051	217.178	217.502	217.618	217.550	217.428	---	---	---	9
10	216.175	216.101	216.045	216.051	217.334	217.571	217.630	217.597A	217.402	---	---	---	10
11	216.174	216.080	216.048	216.051	217.358	217.573	217.518	---	217.286	---	---	---	11
12	216.170	216.082	216.050	---	217.368	217.701	217.512	---	217.306	---	---	---	12
13	216.171	216.086	216.047	---	217.344	217.603	217.606	217.632A	217.324	---	---	---	13
14	216.180	216.084	216.043	---	217.336	217.569	217.643	217.569	217.351	---	---	---	14
15	216.174	216.086	216.042	---	217.344	217.364	217.662	217.586	217.417	---	---	---	15
16	216.176	216.078	216.031	---	217.265	217.390	217.712	217.559	217.401	---	---	---	16
17	216.178	216.087	216.038	---	217.334	217.516	217.777	217.618	217.575	---	---	---	17
18	216.177	216.077	216.038	---	217.385	217.626	217.771	217.618	217.587	---	---	---	18
19	216.183	216.072	216.037	---	217.406	217.714	217.754	217.644	217.378	---	---	---	19
20	216.178	216.068	216.035	---	217.429	217.718	217.716	217.623	217.468	---	---	---	20
21	216.173	216.085	216.011	---	217.448	217.686	217.676	217.637	216.822	---	---	---	21
22	216.172	216.086	216.010	---	217.448	217.685	217.687	217.628	216.823	---	---	---	22
23	216.168	216.081	216.017	---	217.434	217.637	217.681	217.488	217.640	---	---	---	23
24	216.168	216.080	216.018	---	217.418	217.646	217.680	217.537	217.294	---	---	---	24
25	216.118	216.047	216.020	---	217.435	217.606	217.645	217.680	217.305	---	---	---	25
26	216.117	216.083	216.026	---	217.482	217.607	217.720	217.586	217.402	---	---	---	26
27	216.117	216.082	216.031	---	217.515	217.564	217.788	217.580	217.482	---	---	---	27
28	216.114	216.032	216.031	---	217.468	217.615	217.736	217.575	217.382	---	---	---	28
29	216.107		216.028	---	217.348	217.681	217.618	217.583	217.282	---	---	---	29
30	216.108		216.047	---	217.317	217.638	217.612	217.581	217.312	---	---	---	30
31	216.100		216.040		217.347		217.633	217.577		---		---	31
MEAN	216.160	216.076	216.035	---	217.358	217.582	217.630	---	217.383	---	---	---	MEAN
MAX	216.183	216.103	216.048	---	217.515	217.718	217.777	---	217.587	---	---	---	MAX
MIN	216.100	216.032	216.011	---	216.839	217.361	217.611	---	216.822	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 21 46 N
LONG 98 07 27 W

A - MANUAL GAUGE

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4.360	3.110	2.260	1.810	1.570	196	30.9	6.51	14.0	54.0	22.0	8.950	1
2	4.300	3.060	2.260	1.810	1.550	201	27.5	6.22	13.5	51.5	21.4	8.760	2
3	4.250	3.010	2.230	1.790	1.550	202	25.7	5.87	13.7	48.8	20.9	8.530	3
4	4.170	2.990	2.230	1.790	1.550	200	22.6	6.02	15.2	46.5	20.1	8.300	4
5	4.100	2.940	2.210	1.780	1.520	193	20.5	6.16	16.3	44.9	20.7	8.140	5
6	4.040	2.920	2.190	1.770	1.520	185	19.4	5.21	17.4	43.1	20.1	7.920	6
7	3.970	2.870	2.180	1.770	1.520	176	18.6	5.06	17.7	41.3	20.0	7.730	7
8	3.940	2.850	2.170	1.770	1.510	165	16.9	4.98	18.7	40.4	18.8	7.560	8
9	3.890	2.820	2.140	1.750	1.510	156	15.9	4.87	19.5	39.1	20.4	7.370	9
10	3.840	2.800	2.140	1.750	1.510	146	14.8	5.34	20.6	38.3	19.8	7.170	10
11	3.810	2.750	2.120	1.750	1.490	139	13.8	5.22	23.1	36.4	17.4	7.030	11
12	3.760	2.720	2.100	1.730	1.490	132	13.7	4.75	25.1	34.7	16.7	6.850	12
13	3.720	2.700	2.080	1.730	1.490	126	13.6	4.48	25.4	34.1	16.3	6.700	13
14	3.710	2.680	2.060	1.720	1.470	118	12.8	3.76	26.5	33.1	15.5	6.560	14
15	3.650	2.630	2.030	1.700	1.470	110	12.3	3.22	26.4	31.6	14.6	6.420	15
16	3.630	2.610	2.010	1.700	1.470	100	11.9	3.30	26.6	31.2	14.3 B	6.300	16
17	3.580	2.590	1.990	1.680	1.570	94.1	12.1	2.77	27.4	29.6	13.6 B	6.160	17
18	3.560	2.560	1.990	1.680	1.640	86.5	11.6	3.34	31.1	28.6	13.3 B	6.050	18
19	3.510	2.540	1.970	1.660	2.100	80.3	10.8	4.95	35.1	28.0	12.9 B	5.910	19
20	3.490	2.520	1.970	1.650	2.750	74.3	10.7	8.72	41.9	28.3	12.5 B	5.830	20
21	3.460	2.490	1.950	1.650	3.610	66.2	9.45	11.0	56.2	27.9	12.1 B	5.680	21
22	3.420	2.470	1.950	1.640	5.720	61.9	9.69	13.0	56.5	26.9	11.7 B	5.590	22
23	3.370	2.450	1.920	1.640	15.4	56.0	9.20	13.6	53.9	26.7	11.4 B	5.440	23
24	3.340	2.420	1.920	1.620	18.2 A	51.9	8.09	14.4	56.4	26.1	10.9 B	5.320	24
25	3.320	2.400	1.900	1.620	46.5 E	47.7	8.35	16.2	55.8	25.3	10.5 B	5.270	25
26	3.270	2.370	1.900	1.620	66.2 E	43.6	8.41	17.7	57.9	24.8	10.3 B	5.190	26
27	3.230	2.350	1.880	1.590	86.2 E	40.6	9.22	17.6	57.3	24.6	10.0 B	5.080	27
28	3.200	2.330	1.860	1.580	113 E	37.9	9.06	17.1	57.4	23.7	9.730	4.950	28
29	3.180		1.860	1.570	161 E	36.4	7.79	16.2	55.2	23.4	9.440	4.860	29
30	3.150		1.840	1.570	171 A	33.3	7.23	15.8	54.3	23.5	9.210	4.800	30
31	3.130		1.840		185		7.24	14.6		23.2		4.750	31
TOTAL	113.38	74.56	63.16	50.56	892.63	3 350.4	430.16	267.62	1 003.9	1 041.5	456.94	201.16	TOTAL
MEAN	3.66	2.66	2.04	1.70	28.8	112	13.9	8.63	33.5	33.6	15.2	6.49	MEAN
MAX	4.36	3.11	2.26	1.81	185	202	30.9	17.7	57.9	54.0	22.0	8.95	MAX
MIN	3.13	2.33	1.84	1.57	1.47	33.3	7.23	2.77	13.5	23.2	9.21	4.75	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 21.8
MAXIMUM DAILY, 202 ON JUN 3
MINIMUM DAILY, 1.470 ON MAY 14
MAXIMUM INSTANTANEOUS,
203 AT 12:00 CST ON JUN 3

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 20 40 N
LONG 94 41 00 W
DRAINAGE AREA, 1 990 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	9 790	JUL	37 200
FEB	6 400	AUG	23 100
MAR	5 460	SEP	86 700
APR	4 400	OCT	90 000
MAY	77 100	NOV	39 500
JUN	290 000	DEC	17 400

TOTAL DISCHARGE, 687 000 dam³

KILLARNEY LAKE AT KILLARNEY - STATION NO. 05OA003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	402.295E	402.266E	402.296E	402.506E	402.461	402.361	402.346E	402.225	402.046E	401.994E	401.926E	401.910E	1
2	402.295	402.285	402.295E	402.556E	402.446E	402.371E	402.351E	402.216E	402.052E	401.993E	401.928	401.907E	2
3	402.296E	402.282E	402.294	402.606	402.436E	402.361E	402.354	402.206	402.054E	401.992	401.926E	401.905	3
4	402.295E	402.280E	402.300E	402.616E	402.421	402.351E	402.354E	402.204E	402.057	401.986	401.928E	401.905E	4
5	402.295	402.277E	402.323E	402.626E	402.416E	402.341	402.354E	402.202E	402.040E	401.986E	401.930E	401.905E	5
6	402.292E	402.275	402.336	402.636	402.416E	402.344E	402.355	402.200E	402.023E	401.984E	401.926	401.905E	6
7	402.290E	402.274E	402.336E	402.633E	402.413E	402.347E	402.356E	402.196	402.007	401.982E	401.926E	401.905	7
8	402.287E	402.273	402.336E	402.626E	402.411	402.351	402.361E	402.189E	402.004E	401.980E	401.926E	401.905E	8
9	402.285	402.266	402.336E	402.623E	402.409E	402.346E	402.364E	402.180E	402.002E	401.976	401.926	401.905E	9
10	402.285E	402.270E	402.336	402.618	402.407E	402.346E	402.367	402.172E	401.999E	401.974E	401.925E	401.905E	10
11	402.285E	402.283E	402.344E	402.627E	402.406	402.343E	402.357E	402.162E	401.997	401.971E	401.923E	401.905	11
12	402.285	402.290E	402.351E	402.626	402.421	402.341	402.347E	402.155E	402.007E	401.968	401.920E	401.905E	12
13	402.287E	402.296	402.356	402.631E	402.421E	402.344E	402.336	402.146E	402.017E	401.966E	401.918	401.905E	13
14	402.290E	402.296E	402.371E	402.626	402.421E	402.347E	402.333E	402.137E	402.027	401.963E	401.917E	401.905	14
15	402.292E	402.296E	402.385E	402.621E	402.421	402.351	402.329E	402.129E	402.024E	401.960E	401.917E	401.905E	15
16	402.295	402.296	402.386	402.616E	402.421E	402.331	402.324E	402.120E	402.023E	401.958	401.917	401.905E	16
17	402.295E	402.296E	402.386E	402.611	402.421E	402.331E	402.320	402.112	402.019E	401.956E	401.917E	401.905E	17
18	402.295E	402.296E	402.386E	402.604E	402.421	402.331E	402.310E	402.111E	402.017	401.954E	401.917E	401.905	18
19	402.295E	402.296E	402.386E	402.597E	402.421E	402.331	402.300E	402.100E	402.014E	401.954	401.917E	401.905	19
20	402.295	402.296	402.386	402.591	402.421E	402.330E	402.291	402.100E	402.012E	401.956E	401.917	401.905E	20
21	402.295E	402.296E	402.406E	402.586E	402.421E	402.341E	402.286E	402.107	402.009E	401.953E	401.922E	401.904	21
22	402.295E	402.296E	402.411E	402.541E	402.421	402.346E	402.281E	402.094E	402.007	401.950E	401.927E	401.904E	22
23	402.295	402.296	402.416	402.516E	402.416E	402.351	402.277E	402.090E	402.003E	401.946	401.932	401.904E	23
24	402.295E	402.296E	402.416E	402.491	402.411E	402.351E	402.272	402.087	402.000E	401.946E	401.930E	401.904E	24
25	402.295E	402.296E	402.422	402.484E	402.406	402.351E	402.267E	402.087E	401.997	401.940E	401.928E	401.904	25
26	402.295	402.296E	402.390E	402.479E	402.405E	402.351	402.283	402.087E	401.997E	401.948	401.922E	401.900E	26
27	402.292E	402.296	402.397	402.471	402.403E	402.346E	402.283	402.077E	401.997E	401.943E	401.920E	401.897E	27
28	402.290E	402.297E	402.396E	402.471	402.402E	402.345E	402.278E	402.067	401.997E	401.938E	401.917E	401.894	28
29	402.287E		402.400E	402.466E	402.401	402.342	402.272E	402.060E	401.997	401.932E	401.915	401.894E	29
30	402.285		402.402	402.464E	402.394E	402.345E	402.266E	402.053E	401.996E	401.938	401.912E	401.894E	30
31	402.285E		402.453E		402.387E		402.260E	402.047		401.938E		401.894E	31
MEAN	402.292	402.290	402.371	402.572	402.416	402.347	402.317	402.131	402.016	401.962	401.923	401.903	MEAN
MAX	402.295	402.296	402.453	402.636	402.461	402.371	402.367	402.225	402.057	401.994	401.932	401.910	MAX
MIN	402.285	402.266	402.294	402.464	402.387	402.331	402.260	402.047	401.996	401.928	401.912	401.894	MIN

WATER LEVELS IN METRES

MEAN, 402.211
MAXIMUM DAILY, 402.636 ON APR 6
MINIMUM DAILY, 401.894 ON DEC 28

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 10 30 N
LONG 99 40 12 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KISKITTO LAKE NEAR NORWAY HOUSE - STATION NO 05UB013

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	213.148	213.572	213.555	213.648	213.544	213.555	213.492	213.535	1
2	---	---	---	---	213.156	213.551	213.569	213.646	213.529	213.540	213.478	213.511	2
3	---	---	---	---	213.180	213.549	213.550	213.652	213.593	213.506	213.501	213.515	3
4	---	---	---	---	213.169	213.553	213.551	213.657	213.530	213.522	213.512	213.504	4
5	---	---	---	---	213.198	213.603	213.571	213.652	213.502	213.556	213.538	213.508A	5
6	---	---	---	---	213.187	213.600	213.553	213.640	213.483	213.548	213.506	---	6
7	---	---	---	213.125A	213.194	213.587	213.534	213.640	213.496	213.536	213.478	---	7
8	---	---	---	213.124	213.201	213.611	213.527	213.619	213.522	213.535	213.510	---	8
9	---	---	---	213.116	213.213	213.614	213.532	213.616	213.485	213.536	213.503	---	9
10	---	---	---	213.112	213.232	213.620	213.545	213.613	213.469	213.530	213.498	---	10
11	---	---	---	213.104	213.267	213.623	213.571	213.605	213.501	213.511	213.506	---	11
12	---	---	---	213.107	213.285	213.625	213.593	213.604	213.501	213.516	213.500	---	12
13	213.305A	---	---	213.111	213.282	213.631	213.605	213.621	213.502	213.518	213.515	---	13
14	---	---	---	213.113	213.300	213.621	213.595	213.598	213.496	213.506	213.513	---	14
15	---	---	---	213.106	213.325	213.601	213.588	213.594	213.496	213.516	213.503	---	15
16	---	---	---	213.089	213.339	213.615	213.637	213.589	213.486	213.545	213.512	---	16
17	---	---	---	213.104	213.354	213.610	213.651	213.586	213.526	213.545	213.521	---	17
18	---	---	---	213.109	213.373	213.604	213.646	213.649	213.589	213.510	213.518	---	18
19	---	---	---	213.102	213.401	213.588	213.651	213.597	213.574	213.520	213.525	---	19
20	---	---	---	213.096	213.416	213.587	213.633	213.563	213.584	213.539	213.522	---	20
21	---	---	---	213.113	213.442	213.598	213.635	213.571	213.547	213.519	213.528	---	21
22	---	---	---	213.104	213.462	213.575	213.651	213.587	213.554	213.510	213.526	---	22
23	---	---	---	213.104	213.494	213.584	213.654	213.570	213.572	213.518	213.528	---	23
24	---	---	---	213.100	213.516	213.585	213.651	213.586	213.571	213.519	213.532	---	24
25	---	---	---	213.098	213.520	213.587	213.648	213.556	213.581	213.516	213.536	---	25
26	---	---	---	213.114	213.535	213.552	213.648	213.580	213.552	213.504	213.533	---	26
27	---	---	---	213.122	213.551	213.590	213.664	213.548	213.543	213.511	213.528	---	27
28	---	---	---	213.126	213.553	213.594	213.644	213.562	213.555	213.512	213.527	---	28
29	---		---	213.138	213.543	213.578	213.619	213.550	213.584	213.511	213.523	---	29
30	---		---	213.139	213.567	213.567	213.629	213.551	213.551	213.511	213.522	---	30
31	---		---		213.576		213.641	213.558		213.508		---	31
MEAN	---	---	---	---	213.355	213.592	213.605	213.603	213.531	213.522	213.518	---	MEAN
MAX	---	---	---	---	213.576	213.631	213.664	213.657	213.593	213.556	213.538	---	MAX
MIN	---	---	---	---	213.148	213.547	213.527	213.548	213.469	213.504	213.478	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 213.664 ON JUL 27

MAXIMUM INSTANTANEOUS,
213.674 AT 11 45 CST ON JUL 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 18 10 N
LONG 98 26 20 W

A - MANUAL GAUGE

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN HYDRO EXT)

KISKITTOGISU LAKE NEAR NORWAY HOUSE - STATION NO 05UB007

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.173	216.087	216.041	216.036	216.038A	217.405	217.581	217.585	217.574	217.332	---	---	1
2	216.175	216.086	216.044	216.033	216.078	217.438	217.598	217.596	217.568	---	---	---	2
3	216.171	216.078	216.038	216.027	216.028	217.370	217.624	217.704	217.615	---	---	---	3
4	216.173	216.089	216.039	216.012	216.074	217.361	217.611	217.722	217.485	---	---	---	4
5	216.175	216.103	216.043	216.039	217.005	217.356	217.620	217.657	217.494	---	---	---	5
6	216.176	216.095	216.031	216.032	217.048	217.350	217.535	217.648	217.407	---	---	---	6
7	216.176	216.095	216.036	216.036	217.078	217.414	217.601	217.316	217.408	---	---	---	7
8	216.178	216.100	216.046	216.041	217.129	217.406	217.579	217.481	217.491	---	---	---	8
9	216.182	216.098	216.040	216.051	217.178	217.582	217.618	217.559	217.428	---	---	---	9
10	216.178	216.101	216.048	216.051	217.234	217.671	217.639	217.587A	217.402	---	---	---	10
11	216.176	216.090	216.048	216.051	217.259	217.673	217.618	---	217.286	---	---	---	11
12	216.178	216.092	216.059	---	217.269	217.701	217.612	---	217.306	---	---	---	12
13	216.171	216.086	216.047	---	217.269	217.689	217.606	217.632A	217.324	---	---	---	13
14	216.180	216.084	216.043	---	217.238	217.669	217.643	217.588	217.351	---	---	---	14
15	216.176	216.086	216.043	---	217.268	217.384	217.662	217.598	217.417	---	---	---	15
16	216.178	216.078	216.031	---	217.289	217.380	217.712	217.559	217.491	---	---	---	16
17	216.178	216.067	216.038	---	217.329	217.618	217.777	217.618	217.675	---	---	---	17
18	216.177	216.077	216.036	---	217.388	217.626	217.771	217.618	217.687	---	---	---	18
19	216.183	216.072	216.037	---	217.408	217.716	217.754	217.644	217.375	---	---	---	19
20	216.178	216.058	216.015	---	217.428	217.718	217.716	217.323	217.068	---	---	---	20
21	216.172	216.055	216.011	---	217.448	217.688	217.676	217.437	216.822	---	---	---	21
22	216.172	216.058	216.018	---	217.469	217.665	217.667	217.428	216.823	---	---	---	22
23	216.180	216.061	216.017	---	217.434	217.637	217.581	217.466	217.040	---	---	---	23
24	216.160	216.050	216.018	---	217.419	217.668	217.590	217.537	217.208	---	---	---	24
25	216.118	216.047	216.025	---	217.438	217.688	217.645	217.559	217.305	---	---	---	25
26	216.117	216.043	216.024	---	217.482	217.687	217.720	217.586	217.402	---	---	---	26
27	216.117	216.042	216.021	---	217.515	217.644	217.788	217.589	217.402	---	---	---	27
28	216.116	216.032	216.031	---	217.485	217.615	217.726	217.575	217.382	---	---	---	28
29	216.107		216.028	---	217.368	217.681	217.616	217.583	217.282	---	---	---	29
30	216.108		216.047	---	217.317	217.638	217.613	217.581	217.312	---	---	---	30
31	216.100		216.040		217.347		217.633	217.577		---		---	31
MEAN	216.160	216.076	216.038	---	217.359	217.552	217.630	---	217.363	---	---	---	MEAN
MAX	216.183	216.103	216.069	---	217.515	217.719	217.777	---	217.687	---	---	---	MAX
MIN	216.100	216.032	216.011	---	216.638	217.341	217.611	---	216.822	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 21 46 N
LONG 98 07 27 W

A - MANUAL GAUGE

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

KISSISSING LAKE AT COLD LAKE - STATION NO. 05EA009

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	30.385	30.548	30.484	30.521	30.512	30.511	1
2	---	---	---	---	---	---	30.387	30.546	30.478	30.521	30.513	30.508A	2
3	---	---	---	---	---	---	30.381	30.545	30.500	30.521	30.514	---	3
4	30.120A	---	---	---	---	---	30.384	30.541	30.485	30.524	30.514	---	4
5	---	---	---	---	---	---	30.376	30.542	30.474	30.523	30.515	---	5
6	---	---	---	---	---	---	30.380	30.533	30.475	30.523	30.518	---	6
7	---	---	---	---	---	---	30.375	30.535	30.475	30.522	30.518	---	7
8	---	---	---	---	---	---	30.363	30.529	30.494	30.521	30.519	---	8
9	---	---	---	---	---	---	30.384	30.539	30.483	30.520	30.519	---	9
10	---	---	---	---	---	---	30.377	30.543	30.483	30.515	30.518	---	10
11	---	---	---	---	---	---	30.381	30.538	30.485	30.515	30.514	---	11
12	---	---	---	---	---	---	30.378	30.536	30.487	30.514	30.513	---	12
13	---	---	---	---	---	---	30.381	30.538	30.488	30.513	30.511	---	13
14	---	---	---	---	---	---	30.370	30.518	30.486	30.513	30.509	---	14
15	---	---	---	---	---	---	30.427	30.528	30.482	30.514	30.508	---	15
16	---	---	---	---	---	---	30.483	30.510	30.477	30.518	30.507	---	16
17	---	---	---	---	---	---	30.507	30.505	30.473	30.519	30.507	---	17
18	---	---	---	---	---	---	30.518	30.505	30.509	30.521	30.508	---	18
19	---	---	---	---	---	---	30.521	30.536	30.526	30.521	30.509	---	19
20	---	---	---	---	---	---	30.526	30.500	30.525	30.520	30.510	---	20
21	---	---	---	---	---	---	30.518	30.501	30.522	30.520	30.514	---	21
22	---	---	---	---	---	---	30.550	30.487	30.522	30.519	30.516	---	22
23	---	---	---	---	---	---	30.554	30.492	30.520	30.519	30.516	---	23
24	---	---	---	---	---	---	30.552	30.494	30.521	30.519	30.518	---	24
25	---	---	---	---	---	---	30.549	30.493	30.520	30.519	30.519	---	25
26	---	---	---	---	---	---	30.551	30.493	30.517	30.516	30.518	---	26
27	---	---	---	---	---	---	30.578	30.491	30.516	30.513	30.518	---	27
28	---	---	---	---	---	30.413A	30.568	30.490	30.520	30.512	30.518	---	28
29	---		---	---	---	30.405	30.557	30.490	30.520	30.511	30.518	---	29
30	---		---	---	---	30.403	30.557	30.488	30.520	30.511	30.514	---	30
31	---		---		---	30.396	30.555	30.485		30.511		---	31
MEAN	---	---	---	---	---	---	30.463	30.517	30.498	30.518	30.514	---	MEAN
MAX	---	---	---	---	---	---	30.578	30.548	30.526	30.526	30.518	---	MAX
MIN	---	---	---	---	---	---	30.363	30.485	30.473	30.511	30.507	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 30.578 ON JUL 27

MAXIMUM INSTANTANEOUS,
30.590 AT 09:10 CST ON AUG 19

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 07 50 N
LONG 101 06 50 W

A - MANUAL GAUGE

KRONSCART DRAIN NEAR SEWELL - STATION NO. 05BC024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.2608	0	0	---	---	---	---	---	---	1
2	---	---	0 B	0.5908	0	0	---	---	---	---	---	---	2
3	---	---	0 B	1.25 B	0	0	---	---	---	---	---	---	3
4	---	---	0 B	1.88 B	0	0	---	---	---	---	---	---	4
5	---	---	0 B	3.08 B	0	0	---	---	---	---	---	---	5
6	---	---	0 B	3.30 B	0	0	---	---	---	---	---	---	6
7	---	---	0 B	2.00 B	0	0	---	---	---	---	---	---	7
8	---	---	0 B	1.42	0	0	---	---	---	---	---	---	8
9	---	---	0 B	0.848	0	0	---	---	---	---	---	---	9
10	---	---	0 B	0.170	0	0	---	---	---	---	---	---	10
11	---	---	0 B	0.117	0	0	---	---	---	---	---	---	11
12	---	---	0 B	0.174	0	0	---	---	---	---	---	---	12
13	---	---	0 B	0.084	0	0	---	---	---	---	---	---	13
14	---	---	0 B	0.034	0	0	---	---	---	---	---	---	14
15	---	---	0 B	0.007	0	0	---	---	---	---	---	---	15
16	---	---	0 B	0	0	0	---	---	---	---	---	---	16
17	---	---	0 B	0	0	0	---	---	---	---	---	---	17
18	---	---	0 B	0	0	0	---	---	---	---	---	---	18
19	---	---	0 B	0	0	0	---	---	---	---	---	---	19
20	---	---	0 B	0	0	0	---	---	---	---	---	---	20
21	---	---	0 B	0	0	0	---	---	---	---	---	---	21
22	---	---	0 B	0	0	0	---	---	---	---	---	---	22
23	---	---	0 B	0	0	0	---	---	---	---	---	---	23
24	---	---	0 B	0	0	0	---	---	---	---	---	---	24
25	---	---	0 B	0	0	0	---	---	---	---	---	---	25
26	---	---	0 B	0	0	0	---	---	---	---	---	---	26
27	---	---	0 B	0	0	0	---	---	---	---	---	---	27
28	---	---	0 B	0	0	0	---	---	---	---	---	---	28
29	---		0 B	0	0	0	---	---	---	---	---	---	29
30	---		0.0108	0	0	0	---	---	---	---	---	---	30
31	---		0.0178		0		---	---	---	---	---	---	31
TOTAL	---	---	0.027	14.975	0	0	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.001	0.499	0	0	---	---	---	---	---	---	MEAN
MAX	---	---	0.017	3.30	0	0	---	---	---	---	---	---	MAX
MIN	---	---	0	0	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.123
MAXIMUM DAILY, 3.300 ON APR 6
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
3.920 AT 13:11 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 18 50 N
LONG 97 30 30 W

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	2.33	SEP	---
APR	1 390	OCT	---
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 1 390 dam³

LA SALLE RIVER ABOVE HOGUE'S DAM - STATION NO 05OCG01

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	229.584	229.434	229.325E	229.249E	229.239E	---	1
2	---	---	---	---	---	---	229.535E	229.440E	229.323	229.249E	229.239	---	2
3	---	---	---	---	---	---	229.526E	229.465	229.320E	229.250	229.237E	---	3
4	---	---	---	---	---	---	229.517	229.465E	229.315E	229.253E	229.236	---	4
5	---	---	---	---	---	---	229.507E	229.464	229.313	229.256	229.232E	---	5
6	---	---	---	---	---	229.404	229.497	229.447E	229.311E	229.260E	229.229E	---	6
7	---	---	---	---	---	229.400E	229.483E	229.427E	229.309	229.264	229.225	---	7
8	---	---	---	---	---	229.397	229.490	229.406	229.308E	229.263E	229.223E	---	8
9	---	---	---	---	---	229.391E	229.462E	229.414E	229.307	229.263E	229.222	---	9
10	---	---	---	---	---	229.385	229.476E	229.420	229.304E	229.262	229.220E	---	10
11	---	---	---	---	---	229.402E	229.487	229.411E	229.301E	229.255E	229.218	---	11
12	---	---	---	---	---	229.420E	229.463E	229.403	229.296	229.245	229.217E	---	12
13	---	---	---	---	---	229.437	229.459E	229.391E	229.294E	229.247E	229.216E	---	13
14	---	---	---	---	---	229.427E	229.455E	229.380E	229.290	229.246	229.215	---	14
15	---	---	---	---	---	229.417	229.451	229.368	229.286E	229.246E	229.214E	---	15
16	---	---	---	---	---	229.407E	229.448E	229.384E	229.282	229.248E	229.213	---	16
17	---	---	---	---	---	229.398	229.446E	229.381	229.280E	229.246	229.213E	---	17
18	---	---	---	---	---	229.395E	229.443	229.358E	229.278E	229.246E	229.213	---	18
19	---	---	---	---	---	229.392E	229.442E	229.355	229.276	229.246	---	---	19
20	---	---	---	---	---	229.389	229.441	229.355E	229.271E	229.246E	---	---	20
21	---	---	---	---	---	229.454E	229.432E	229.354E	229.266	229.246	---	---	21
22	---	---	---	---	---	229.520	229.424	229.354	229.262E	229.246E	---	---	22
23	---	---	---	---	---	229.633E	229.424E	229.351E	229.259	229.246E	---	---	23
24	---	---	---	---	---	229.746	229.425E	229.348	229.257E	229.246	---	---	24
25	---	---	---	---	---	229.708E	229.425	229.345E	229.255E	229.246E	---	---	25
26	---	---	---	---	---	229.670E	229.417E	229.342	229.253	229.246	---	---	26
27	---	---	---	---	---	229.632	229.410	229.339E	229.251E	229.246E	---	---	27
28	---	---	---	---	---	229.595E	229.405E	229.337E	229.249	229.245	---	---	28
29	---		---	---	---	229.567	229.401	229.334	229.248E	229.243E	---	---	29
30	---		---	---	---	229.555E	229.412E	229.331E	229.248	229.242E	---	---	30
31	---		---		---		229.423E	229.328		229.240		---	31
MEAN	---	---	---	---	---	---	229.457	229.384	229.285	229.249	---	---	MEAN
MAX	---	---	---	---	---	---	229.544	229.465	229.325	229.264	---	---	MAX
MIN	---	---	---	---	---	---	229.401	229.328	229.248	229.240	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 41 02 N
LONG 97 20 57 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED
NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE LEWKO'S DAM - STATION NO 05OCG03

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	230.863	230.810	230.732E	230.684E	230.669E	---	1
2	---	---	---	---	---	---	230.855E	230.810E	230.727	230.690E	230.667	---	2
3	---	---	---	---	---	---	230.847E	230.810	230.724E	230.697	230.662E	---	3
4	---	---	---	---	---	---	230.839	230.810E	230.720E	230.694E	230.657	---	4
5	---	---	---	---	---	---	230.831E	230.811	230.717	230.692	230.659E	---	5
6	---	---	---	---	---	230.802	230.824	230.804E	230.714E	230.687E	230.660E	---	6
7	---	---	---	---	---	230.797E	230.824E	230.798E	230.712	230.682	230.662	---	7
8	---	---	---	---	---	230.792	230.824	230.791	230.712E	230.681E	230.659E	---	8
9	---	---	---	---	---	230.774E	230.819E	230.783E	230.712	230.680E	230.657	---	9
10	---	---	---	---	---	230.757	230.814E	230.776	230.710E	230.679E	230.659E	---	10
11	---	---	---	---	---	230.744E	230.809	230.776E	230.709E	230.678E	230.662	---	11
12	---	---	---	---	---	230.730E	230.814E	230.778	230.707	230.677E	230.662E	---	12
13	---	---	---	---	---	230.717	230.818	230.783E	230.709E	230.676E	230.662E	---	13
14	---	---	---	---	---	230.730E	230.811E	230.783E	230.712	230.675E	230.662	---	14
15	---	---	---	---	---	230.743	230.804	230.786	230.712E	230.674E	230.662E	---	15
16	---	---	---	---	---	230.748E	230.808E	230.783E	230.713	230.673E	230.662	---	16
17	---	---	---	---	---	230.753	230.814E	230.781	230.707E	230.672	230.662E	---	17
18	---	---	---	---	---	230.755E	230.819	230.748E	230.702E	230.669E	230.662	---	18
19	---	---	---	---	---	230.758E	230.819E	230.746	230.697	230.667	---	---	19
20	---	---	---	---	---	230.758	230.820	230.743E	230.702E	230.667E	---	---	20
21	---	---	---	---	---	230.870E	230.817E	230.739E	230.707	230.667	---	---	21
22	---	---	---	---	---	231.183	230.815	230.736	230.697E	230.668E	---	---	22
23	---	---	---	---	---	231.133E	230.812E	230.739E	230.687	230.670E	---	---	23
24	---	---	---	---	---	231.083	230.808E	230.742	230.684E	230.672	---	---	24
25	---	---	---	---	---	231.020E	230.805	230.739E	230.680E	230.676E	---	---	25
26	---	---	---	---	---	230.956E	230.805E	230.737	230.677	230.677	---	---	26
27	---	---	---	---	---	230.893	230.805	230.740E	230.677E	230.677E	---	---	27
28	---	---	---	---	---	230.883E	230.802E	230.744E	230.677	230.677	---	---	28
29	---		---	---	---	230.873	230.800	230.747	230.677E	230.678E	---	---	29
30	---		---	---	---	230.868E	230.803E	230.742E	230.677	230.674E	---	---	30
31	---		---		---		230.807E	230.737		230.672		---	31
MEAN	---	---	---	---	---	---	230.818	230.765	230.703	230.677	---	---	MEAN
MAX	---	---	---	---	---	---	230.863	230.811	230.732	230.697	---	---	MAX
MIN	---	---	---	---	---	---	230.800	230.736	230.677	230.667	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 39 05 N
LONG 97 23 23 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED
NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER ABOVE ST. NORBERT DAM - STATION NO. 05OE004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	227.480	226.210	225.960	---	---	225.824E	225.762E	---	---	1
2	---	---	---	227.487	226.210	225.980	---	---	225.821E	225.767	---	---	2
3	---	---	---	227.710	226.205	225.942	---	---	225.817	225.768E	---	---	3
4	---	---	---	---	226.200	225.933	---	225.977	225.787	225.788E	---	---	4
5	---	---	---	---	226.192	225.923	---	---	225.788E	225.770	---	---	5
6	---	---	---	---	226.192	225.914	226.280	---	225.784E	225.770E	---	---	6
7	---	---	---	---	226.182	225.910	---	---	225.783E	225.770E	---	---	7
8	---	---	---	---	226.180	225.910	---	---	225.782	225.771E	---	---	8
9	---	---	---	---	226.170	225.906	---	---	225.788E	225.771	---	---	9
10	---	---	---	---	226.160	225.904	---	---	225.787	225.770E	---	---	10
11	---	---	---	---	226.152	225.900	---	---	225.782	225.768E	---	---	11
12	---	---	---	227.480	226.150	225.885	---	---	225.788E	225.768E	---	---	12
13	---	---	---	---	226.145	225.895	---	---	225.784E	225.767	---	---	13
14	---	---	---	227.485	226.140	225.900	---	---	225.781E	225.767E	---	---	14
15	---	---	---	227.157	226.140	225.905	---	---	225.777	225.768E	---	---	15
16	---	---	---	226.862	226.135	225.897	---	---	225.777E	225.768E	---	---	16
17	---	---	---	226.655	226.130	225.897	---	---	225.777E	225.765E	---	---	17
18	---	---	---	226.384	226.190	225.897	---	---	225.777	225.765	---	---	18
19	---	---	---	226.322	226.115	225.882	---	---	225.778E	225.763E	---	---	19
20	---	---	---	226.298	226.105	225.895	---	---	225.773E	225.761E	---	---	20
21	---	---	---	226.287	226.090	225.908	---	---	225.771E	225.788E	---	---	21
22	---	---	---	226.284	226.082	---	---	---	225.768E	225.767	---	---	22
23	---	---	---	226.281	226.085	---	---	---	225.767	225.758E	---	---	23
24	---	---	---	226.276	226.055	---	---	---	225.768E	225.763	---	---	24
25	---	---	---	226.267	226.042	---	---	---	225.765	225.759E	---	---	25
26	---	---	---	226.252	226.018	---	---	---	225.765E	225.756E	---	---	26
27	---	---	---	226.255	226.005	---	---	---	225.768E	225.763E	---	---	27
28	---	---	---	226.218	225.985	---	226.019	---	225.765	225.760E	---	---	28
29	---		---	226.213	225.985	---	---	---	225.781E	225.767	---	---	29
30	---		---	226.210	225.925	---	---	226.832	225.767	225.769E	---	---	30
31	---		226.280		225.922		---	226.826E		225.762		---	31
MEAN	---	---	---	---	226.112	---	---	---	225.781	225.783	---	---	MEAN
MAX	---	---	---	---	226.210	---	---	---	225.824	225.771	---	---	MAX
MIN	---	---	---	---	225.922	---	---	---	225.767	225.747	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 43 17 N
LONG 97 14 36 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER AT ELIE - STATION NO. 05OE007

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	239.268E	239.269	239.248	239.187	---	---	---	---	1
2	---	---	---	---	239.264	239.264E	---	239.178E	---	---	---	---	2
3	---	---	---	---	---	239.259	---	239.172	---	---	---	---	3
4	---	---	---	---	239.259	---	---	239.171E	---	---	---	---	4
5	---	---	---	---	---	---	---	239.170	238.644	238.623	---	---	5
6	---	---	---	---	239.239	---	---	239.158E	238.626E	---	---	---	6
7	---	---	---	---	---	---	---	239.147E	238.607	---	---	---	7
8	---	---	---	---	---	---	---	239.136	238.586E	---	---	---	8
9	---	---	---	---	---	---	---	239.094E	238.566	---	---	---	9
10	---	---	239.170	---	---	---	---	239.052	---	---	---	---	10
11	---	---	---	239.503	---	---	---	238.984E	---	---	---	---	11
12	---	---	---	239.448E	---	---	---	238.977	---	---	---	---	12
13	---	---	---	239.393	---	---	---	238.947E	---	---	---	---	13
14	---	---	---	239.381E	---	---	---	238.917E	---	---	---	---	14
15	---	---	---	239.330	---	---	---	238.787	---	---	---	---	15
16	---	---	---	239.328E	---	---	---	238.782E	---	---	---	---	16
17	---	---	---	239.322E	---	---	---	238.787	---	---	---	---	17
18	---	---	---	239.316	---	---	239.196	238.743E	---	---	---	---	18
19	---	---	---	239.307	---	---	239.194E	238.680	238.531	---	---	---	19
20	---	---	---	239.311	---	---	239.192	238.691E	238.496E	---	---	---	20
21	---	---	---	239.308E	---	---	239.184E	238.691E	238.458	---	238.487	---	21
22	---	---	---	239.302	---	---	239.177	238.692	238.493E	---	238.485E	---	22
23	---	---	---	239.296E	239.223	---	239.180E	238.684E	238.528	---	238.484	---	23
24	---	---	---	239.283E	---	---	239.200E	238.677	---	---	238.483E	---	24
25	---	---	---	239.289	239.214	---	239.212	238.671E	---	---	238.482	---	25
26	---	---	---	239.285E	---	---	239.207E	238.665	---	---	---	---	26
27	---	---	---	239.281	239.209	239.227	239.202	---	---	---	---	---	27
28	---	---	---	239.275E	---	239.232E	239.198E	---	---	---	---	---	28
29	---		---	239.270	---	239.237	239.196	---	---	---	---	---	29
30	---		---	239.268E	239.199	239.242E	239.193E	---	---	---	---	---	30
31	---		---		---		239.190E	---	---	---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 54 05 N
LONG 97 45 52 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER AT HAMPSONS DAM - STATION NO. 05OC801

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	233.306	233.148	232.885	232.820E	232.810	---	1
2	---	---	---	---	---	---	233.286E	233.138E	232.882E	232.820E	232.810	---	2
3	---	---	---	---	---	---	233.267E	233.128	232.880	232.820	232.810E	---	3
4	---	---	---	---	---	---	233.277	233.108E	232.870E	232.825E	232.810	---	4
5	---	---	---	---	---	---	233.272E	233.089	232.880	232.830	232.810E	---	5
6	---	---	---	---	---	233.233	233.267	233.072E	232.855E	232.825E	232.810E	---	6
7	---	---	---	---	---	233.234E	233.263E	233.056E	232.850	232.820	232.810	---	7
8	---	---	---	---	---	233.235	233.257	233.039	232.855E	232.820E	232.810E	---	8
9	---	---	---	---	---	233.235E	233.250E	233.014E	232.860	232.820E	232.810	---	9
10	---	---	---	---	---	233.235	233.244E	232.989	232.857E	232.820E	---	---	10
11	---	---	---	---	---	233.228E	233.237	232.984E	232.853E	232.820	---	---	11
12	---	---	---	---	---	233.222E	233.232E	232.979	232.850	232.815E	---	---	12
13	---	---	---	---	---	233.215	233.227	232.972E	232.845E	232.810	---	---	13
14	---	---	---	---	---	233.220E	233.224E	232.965E	232.840	232.815E	---	---	14
15	---	---	---	---	---	233.226	233.220E	232.959	232.835E	232.820	---	---	15
16	---	---	---	---	---	233.226E	233.217	232.949E	232.830	232.820E	---	---	16
17	---	---	---	---	---	233.225	233.207E	232.939	232.830E	232.820	---	---	17
18	---	---	---	---	---	233.236E	233.197	232.934E	232.830E	232.820E	---	---	18
19	---	---	---	---	---	233.246E	233.192E	232.929	232.830	232.820	---	---	19
20	---	---	---	---	---	233.256	233.188	232.926E	232.825E	232.820E	---	---	20
21	---	---	---	---	---	233.378E	233.188E	232.922E	232.820	232.820	---	---	21
22	---	---	---	---	---	233.503E	233.188	232.919	232.815E	232.820E	---	---	22
23	---	---	---	---	---	233.626	233.188E	232.924E	232.810	232.820E	---	---	23
24	---	---	---	---	---	233.636E	233.188	232.930	232.810E	232.820	---	---	24
25	---	---	---	---	---	233.646	233.188E	232.927E	232.810E	232.820E	---	---	25
26	---	---	---	---	---	233.496E	233.148	232.923E	232.810	232.820	---	---	26
27	---	---	---	---	---	233.346	233.128E	232.920	232.815E	232.820E	---	---	27
28	---	---	---	---	---	233.328E	233.108	232.913E	232.820	232.820E	---	---	28
29	---		---	---	---	233.306	233.118E	232.907E	232.820E	232.820	---	---	29
30	---		---	---	---	233.306E	233.128E	232.900	232.820	232.817E	---	---	30
31	---		---		---		233.138E	232.892E		232.813E		---	31
MEAN	---	---	---	---	---	---	233.211	232.980	232.839	232.820	---	---	MEAN
MAX	---	---	---	---	---	---	233.306	233.148	232.885	232.830	---	---	MAX
MIN	---	---	---	---	---	---	233.108	232.892	232.810	232.810	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 43 16 N
LONG 97 31 23 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER AT LA SALLE - STATION NO. 05OC802

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	---	227.885	---	---	---	1
2	---	---	---	---	---	---	228.018	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	228.008	---	---	---	---	---	4
5	---	---	---	---	---	---	---	---	---	---	---	---	5
6	---	---	---	---	---	---	---	---	---	---	---	---	6
7	---	---	---	---	---	---	228.012	---	---	---	---	---	7
8	---	---	---	---	---	---	228.003	---	---	---	---	---	8
9	---	---	---	---	---	---	---	---	---	---	---	---	9
10	---	---	---	---	---	227.933	---	---	---	---	---	---	10
11	---	---	---	230.023	---	---	227.987	---	---	---	---	---	11
12	---	---	---	---	---	---	---	---	---	---	---	---	12
13	---	---	---	---	---	---	227.972	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	---	---	---	---	227.945	---	---	---	---	---	15
16	---	---	---	---	---	---	---	---	---	---	---	---	16
17	---	---	---	---	---	---	---	---	---	---	---	---	17
18	---	---	---	---	---	---	---	---	---	---	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	---	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	---	---	228.051	---	---	227.902	---	---	---	---	---	25
26	---	---	---	---	---	---	---	---	---	---	---	---	26
27	---	---	---	---	---	228.078	227.884	---	---	---	---	---	27
28	---	---	---	---	---	---	227.887	---	---	---	---	---	28
29	---		---	---	---	228.027	227.889	---	---	---	---	---	29
30	---		---	---	---	---	---	---	---	---	---	---	30
31	---		---		---		---	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 41 43 N
LONG 97 15 52 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER AT SANFORD - STATION NO. 05OG805

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	232.824E	232.748	232.882E	232.450	232.242	232.102E	232.048E	---	1
2	---	---	---	---	232.818	---	232.854E	232.448E	232.224E	232.105E	232.047	---	2
3	232.142	---	---	---	232.813E	232.764	232.825E	232.447	232.206	232.108	---	---	3
4	---	---	---	---	232.809	---	232.797	232.430E	232.197E	232.102E	---	---	4
5	---	---	---	---	232.812E	---	232.789E	232.413	232.188	232.096	---	---	5
6	---	---	---	234.501	232.815	232.730	232.782	232.405E	232.177E	232.083E	---	---	6
7	---	---	---	235.309	232.808E	---	232.786E	232.397E	232.166	232.090	232.032	---	7
8	---	---	---	235.293	232.801E	232.709	232.791	232.389	232.161E	232.087E	---	---	8
9	---	---	---	234.821	232.794	---	232.772E	232.382E	232.157	232.084E	232.020	---	9
10	---	---	---	---	232.798E	---	232.752E	232.374E	232.153E	232.081E	---	---	10
11	---	---	---	233.894	232.803E	232.681	232.733	232.367	232.149E	232.078	---	---	11
12	---	---	---	---	232.807E	---	232.727E	232.352E	232.145	232.079E	---	---	12
13	---	---	---	233.087	232.812	232.693	232.721	232.337	232.145E	232.081	---	---	13
14	---	---	---	---	232.803E	---	232.713E	232.328E	232.145	232.079E	---	---	14
15	---	---	---	232.983	232.794	232.697	232.706	232.319	232.140E	232.078	---	---	15
16	---	---	---	---	232.783E	---	232.679E	232.309E	232.135E	232.076E	---	---	16
17	---	---	---	---	232.792E	232.681	232.653E	232.298E	232.130E	232.075	---	---	17
18	---	---	---	232.867	232.791	---	232.626	232.288	232.125E	232.089E	---	---	18
19	---	---	---	232.916	232.786E	---	232.618E	232.263E	232.120	232.083	---	---	19
20	---	---	---	232.907	232.782	232.663	232.611	232.279	232.117E	232.083E	---	---	20
21	---	---	---	---	232.782	---	232.600E	232.274E	232.114	232.083	---	---	21
22	---	---	---	---	232.783E	233.181	232.590	232.289E	232.111E	232.058E	---	---	22
23	---	---	---	---	232.784E	---	232.574E	232.264	232.108	232.054E	---	---	23
24	---	---	---	---	232.785	233.023	232.567E	232.265E	232.102E	232.050	---	---	24
25	---	---	---	232.822	232.777E	---	232.541	232.267	232.098E	232.051E	---	---	25
26	---	---	---	---	232.769E	---	232.521E	232.262E	232.090	232.053E	---	---	26
27	---	---	---	232.861	232.761	233.023	232.501	232.258	232.085E	232.054E	---	---	27
28	---	---	---	232.845	232.762E	---	232.478E	232.258E	232.081	232.056	---	---	28
29	---		---	232.843	232.764	---	232.456	232.256	232.090E	232.050	---	---	29
30	---		---	---	232.764	---	232.454E	232.253E	232.089	232.048E	---	---	30
31	---		---		232.764		232.452E	232.247E		232.048E		---	31
MEAN	---	---	---	---	232.792	---	232.663	232.328	232.140	232.073	---	---	MEAN
MAX	---	---	---	---	232.824	---	232.882	232.450	232.242	232.108	---	---	MAX
MIN	---	---	---	---	232.761	---	232.452	232.247	232.081	232.048	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 235.309 ON APR 7

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 41 02 N
LONG 97 24 42 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED
NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER AT STARBUCK - STATION NO. 05OG805

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	235.672E	235.598E	235.681E	235.490E	235.296	---	---	---	1
2	---	---	---	---	235.688	235.595	235.674	235.482	235.290	---	---	---	2
3	---	---	---	---	235.665E	---	235.670E	235.474E	235.284E	---	---	---	3
4	---	---	---	---	235.682	235.589	235.666E	235.467	235.278E	---	---	---	4
5	---	---	---	---	235.662E	---	235.662	235.455E	235.272	---	---	---	5
6	---	---	---	---	235.662	---	235.656E	235.443	235.266E	---	---	---	6
7	---	---	---	---	235.654E	---	235.650	235.432E	235.260	---	---	---	7
8	---	---	---	---	235.647E	---	235.644E	235.421	235.260E	---	---	---	8
9	---	---	---	---	235.639E	---	235.638	235.413E	235.260E	---	---	---	9
10	---	---	---	---	235.632	235.562	235.634E	235.406	235.260	235.193	---	---	10
11	---	---	---	---	235.627E	---	235.630E	235.395E	235.251E	---	---	---	11
12	---	---	---	235.991	235.623	---	235.626	235.385	235.242	235.187	---	---	12
13	---	---	---	---	235.620E	---	235.619E	235.374E	235.235E	---	---	---	13
14	---	---	---	235.833	235.616E	235.585	235.613	235.362E	235.229	235.187	---	---	14
15	---	---	---	---	235.615	---	235.607E	235.351	235.226E	---	---	---	15
16	---	---	---	235.784	235.613E	235.585	235.601	235.345E	235.223	---	---	---	16
17	---	---	---	---	235.613	---	235.597E	235.339	235.224E	---	---	---	17
18	---	---	---	235.760	235.619E	235.583	235.593E	235.322E	235.226E	---	---	---	18
19	---	---	---	235.732	235.626	---	235.589	235.306	235.227E	---	---	---	19
20	---	---	---	235.735	235.626E	235.906	235.583E	235.310E	235.229	---	---	---	20
21	---	---	---	---	235.626	---	235.577	235.315	235.220E	---	---	---	21
22	---	---	---	235.723	235.619E	235.930	235.571E	235.318E	235.211	---	---	---	22
23	---	---	---	---	235.613	---	235.565	235.321	235.205E	---	---	---	23
24	---	---	---	---	235.613E	235.769	235.557E	235.316E	235.199	235.187	---	---	24
25	---	---	---	---	235.613	---	235.548E	235.312	---	---	---	---	25
26	---	---	---	235.899	235.613E	---	235.540E	235.314E	---	235.187	---	---	26
27	---	---	---	---	235.613	---	235.532E	235.316E	---	---	---	---	27
28	---	---	---	235.887	235.610E	235.699	235.523E	235.319E	---	---	---	---	28
29	---		---	---	235.607E	---	235.515E	235.321	---	235.175	---	---	29
30	---		---	235.874	235.604E	235.687	235.507E	235.315E	---	---	---	---	30
31	---		---		235.601		235.499E	235.309		---		---	31
MEAN	---	---	---	---	235.629	---	235.599	235.369	---	---	---	---	MEAN
MAX	---	---	---	---	235.672	---	235.681	235.490	---	---	---	---	MAX
MIN	---	---	---	---	235.601	---	235.499	235.306	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 48 12 N
LONG 97 36 54 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED
NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LA SALLE RIVER NEAR ELIE - STATION NO. 05OG008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.0018	1.30 B	0.205	0.024	0.028	0.002	0.001	0	---	---	1
2	---	---	0.0018	2.35 B	0.198	0.021	0.025	0.002	0.002	0	---	---	2
3	---	---	0.0018	4.99 B	0.191	0.020	0.034	0.002	0.001	0	---	---	3
4	---	---	0.0018	6.27 B	0.182	0.017	0.017	0.002	0.002	0	---	---	4
5	---	---	0.0018	7.11 B	0.152	0.015	0.010	0.002	0.001	0	---	---	5
6	---	---	0.0018	7.87 B	0.139	0.020	0.009	0.002	0.002	0	---	---	6
7	---	---	0.0018	8.44 B	0.118	0.016	0.009	0.002	0.001	0	---	---	7
8	---	---	0.0018	8.90	0.093	0.016	0.008	0.002	0.001	0	---	---	8
9	---	---	0.0018	8.95	0.087	0.014	0.007	0.002	0.001	0	---	---	9
10	---	---	0.0018	7.81	0.088	0.012	0.006	0.002	0.001	0	---	---	10
11	---	---	0.0018	4.93	0.101	0.012	0.005	0.002	0.001	0	---	---	11
12	---	---	0.0018	3.08	0.087	0.011	0.004	0.002	0.001	0	---	---	12
13	---	---	0.0018	1.79	0.039A	0.010	0.004	0.002	0.001	0	---	---	13
14	---	---	0.0018	1.29	0.055A	0.009	0.003	0.002	0.001	0	---	---	14
15	---	---	0.0018	0.992	0.047E	0.008	0.003	0.001	0.001	0	---	---	15
16	---	---	0.0018	0.816	0.039A	0.007	0.003	0.001	0.001	0	---	---	16
17	---	---	0.0018	0.711	0.041	0.006	0.003	0.001	0.001	0	---	---	17
18	---	---	0.0018	0.618	0.040	0.006	0.002	0.001	0.001	0	---	---	18
19	---	---	0.0018	0.581	0.044	0.006	0.002	0.001	0	0	---	---	19
20	---	---	0.0018	0.501	0.037	0.006	0.002	0.001	0	0	---	---	20
21	---	---	0.0018	0.447	0.038	0.006	0.002	0.001	0	0	---	---	21
22	---	---	0.0018	0.415	0.040	0.112	0.002	0.001	0	0	---	---	22
23	---	---	0.0018	0.379	0.034	0.161	0.002	0.001	0	0	---	---	23
24	---	---	0.0018	0.349	0.035	0.178	0.002	0.001	0	0	---	---	24
25	---	---	0.0018	0.322	0.032	0.172	0.002	0.001	0	0	---	---	25
26	---	---	0.0018	0.309	0.031	0.130	0.002	0.001	0	0	---	---	26
27	---	---	0.0018	0.281	0.030	0.089	0.002	0.001	0	0	---	---	27
28	---	---	0.0018	0.252	0.042	0.061	0.002	0.001	0	0	---	---	28
29	---		0.0018	0.232	0.031	0.040	0.002	0.002	0	0	---	---	29
30	---		0.0018	0.213	0.032	0.046	0.002	0.001	0	0	---	---	30
31	---		0.2458		0.027		0.002	0.001		0		---	31
TOTAL	---	---	B 276	82 496	E.335	1.251	0.206	B 046	0.021	B	---	---	TOTAL
MEAN	---	---	0.009	2 75	0 075	0.042	0 007	0 001	0.001	0	---	---	MEAN
MAX	---	---	0.245	8 95	0.205	0.178	0 034	0 002	0.002	0	---	---	MAX
MIN	---	---	0 001	0 213	0.027	0.008	0.002	0 001	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.354
MAXIMUM DAILY, 8.95 ON APR 9
MINIMUM DAILY, 0 ON SEP 15
MAXIMUM INSTANTANEOUS,
10.5 AT 04:28 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 13 N
LONG 97 45 54 W
DRAINAGE AREA, 198 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	17 8
FEB	---	AUG	3 97
MAR	23 8	SEP	1 81
APR	7 130	OCT	0
MAY	202	NOV	---
JUN	108	DEC	---

TOTAL DISCHARGE, 7 490 dam³

LA SALLE RIVER NEAR SANFORD - STATION NO. 05OG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	21.5 B	0.073	0	0.371	0	0	0.001	0	0B	1
2	0B	0B	0 B	29.8 B	0.054	0	0.215	0	0	0.001	0A	0B	2
3	0B	0B	0 B	34.4 B	0.055	0	0.243	0	0	0.001	0	0B	3
4	0B	0B	0 B	41.8 B	0.014	0	0.195	0	0	0.001	0	0B	4
5	0B	0B	0 B	50.1 B	0.017	0	0.079	0	0	0.001	0	0B	5
6	0B	0B	0 B	59.0 B	0.016	0	0.046	0	0	0.001	0	0B	6
7	0B	0B	0 B	67.4 B	0.006	0	0.035	0	0	0	0	0B	7
8	0B	0B	0 B	69.1 B	0.002	0	0.028	0	0.001	0	0	0B	8
9	0B	0B	0 B	68.2 B	0.001	0	0.020	0	0.001	0	0	0B	9
10	0B	0B	0 B	60.6 B	0.001	0	0.022	0	0.001	0	0B	0B	10
11	0B	0B	0 B	45.5 B	0.001	0	0.024	0	0.001	0	0B	0B	11
12	0B	0B	0 B	24.9 B	0.001	0.001	0.018	0	0.001	0	0B	0B	12
13	0B	0B	0 B	11.6 B	0.002	0.008	0.017	0	0.001	0	0B	0B	13
14	0B	0B	0 B	7.09 B	0	0.010	0.024	0	0.001	0	0B	0B	14
15	0B	0B	0 B	5.59	0	0.008	0.023	0	0.001	0	0B	0B	15
16	0B	0B	0 B	4.11	0	0.002	0.021	0	0.001	0	0B	0B	16
17	0B	0B	0 B	3.18	0	0.007	0.021	0	0.001	0	0B	0B	17
18	0B	0B	0 B	2.52	0	0.016	0.018	0	0.001	0	0B	0B	18
19	0B	0B	0 B	1.91	0	0.026	0.016	0	0.001	0	0B	0B	19
20	0B	0B	0 B	1.55	0	0.044	0.016	0	0.001	0	0B	0B	20
21	0B	0B	0 B	1.23	0	0.070	0.018	0	0	0	0B	0B	21
22	0B	0B	0 B	1.01	0	10.3	0.016	0	0	0	0B	0B	22
23	0B	0B	0 B	0.851	0	16.2	0.008	0	0	0	0B	0B	23
24	0B	0B	0 B	0.709	0	8.50	0	0	0	0	0B	0B	24
25	0B	0B	0 B	0.521	0	4.75	0	0	0	0	0B	0B	25
26	0B	0B	0 B	0.519	0	4 75	0	0	0	0	0B	0B	26
27	0B	0B	0 B	0.330	0	1.55	0	0	0	0	0B	0B	27
28	0B	0B	0 B	0.219	0	0.982	0	0	0	0	0B	0B	28
29	0B		0 B	0.142	0	0.675	0	0	0	0	0B	0B	29
30	0B		5.00 B	0.094	0	0.608	0	0	0.001	0	0B	0B	30
31	0B		10.0 B		0		0	0		0		0B	31
TOTAL	0	0	15.00	615.505	0.243	46.511	1.498	B	0.014	0.006	0	0	TOTAL
MEAN	0	0	0.484	20.5	0.008	1.55	B 048	0	0	B	0	0	MEAN
MAX	0	0	10.0	69.1	0.073	16.2	0.371	0	0.001	B 001	0	0	MAX
MIN	0	0	0	0.094	0	0	B	0	0	0	0	0	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.88
MAXIMUM DAILY, 69.1B ON APR 8
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
69.78 AT 06:47 CST ON APR 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 40 45 N
LONG 97 25 46 W
DRAINAGE AREA, 1 900 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	139
FEB	0	AUG	0
MAR	1 300	SEP	1.21
APR	53 200	OCT	0.52
MAY	21.0	NOV	0
JUN	4 020	DEC	0

TOTAL DISCHARGE, 58 700 dam³

LAKE MANITOBA AT STEEP ROCK - STATION NO. 05LK002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.405	247.419	247.427	247.466	247.570	247.597	247.648	247.584	247.487	247.343	247.433	247.394	1
2	247.404	247.414	247.433	247.468	247.585	247.621	247.653	247.580	247.483	247.367	247.384	247.397	2
3	247.409	247.414	247.429	247.465	247.585	247.629	247.678	247.575	247.538	247.361	247.455	247.397	3
4	247.412	247.414	247.433	247.463	247.587	247.567	247.610	247.584	247.485	247.377	247.506	247.398	4
5	247.415	247.414	247.432	247.467	247.586	247.611	247.646	247.580	247.434	247.378	247.513	247.393	5
6	247.420	247.420	247.442	247.471	247.576	247.595	247.656	247.573	247.428	247.380	247.494	247.391	6
7	247.416	247.416	247.461	247.476	247.573	247.592	247.661	247.560	247.434	247.367	247.489	247.396	7
8	247.421	247.413	247.465	247.483	247.586	247.596	247.645	247.530	247.417	247.394	247.468	247.391	8
9	247.420	247.415	247.467	247.489	247.633	247.628	247.654	247.540	247.413	247.438	247.416	247.391	9
10	247.420	247.419	247.472	247.485	247.654	247.665	247.677	247.528	247.445	247.430	247.411	247.390	10
11	247.419	247.421	247.474	247.491	247.625	247.678	247.708	247.525	247.410	247.421	247.424	247.390	11
12	247.420	247.425	247.474	247.500	247.558	247.688	247.682	247.548	247.390	247.387	247.467	247.402	12
13	247.420	247.424	247.467	247.497	247.575	247.703	247.670	247.537	247.372	247.386	247.493	247.411	13
14	247.422	247.422	247.463	247.500	247.563	247.601	247.662	247.530	247.376	247.398	247.466	247.409	14
15	247.427	247.427	247.465	247.505	247.582	247.612	247.683	247.525	247.367	247.403	247.431	247.404	15
16	247.426	247.422	247.471	247.512	247.616	247.615	247.716	247.512	247.419	247.413	247.486	247.408	16
17	247.424	247.415	247.465	247.519	247.629	247.638	247.703	247.519	247.480	247.411	247.510	247.409	17
18	247.431	247.414	247.461	247.525	247.640	247.661	247.672	247.511	247.532	247.374	247.522	247.410	18
19	247.436	247.415	247.458	247.533	247.607	247.685	247.661	247.511	247.488	247.382	247.501	247.413	19
20	247.433	247.420	247.457	247.538	247.627	247.705	247.649	247.481	247.414	247.418	247.444	247.414	20
21	247.435	247.421	247.459	247.539	247.654	247.696	247.634	247.485	247.348	247.448	247.394	247.410	21
22	247.435	247.424	247.462	247.541	247.638	247.683	247.668	247.459	247.309	247.448	247.397	247.408	22
23	247.430	247.422	247.464	247.546	247.632	247.680	247.608	247.454	247.331	247.464	247.397	247.410	23
24	247.426	247.419	247.466	247.557	247.630	247.659	247.587	247.463	247.344	247.453	247.352	247.412	24
25	247.425	247.425	247.471	247.562	247.628	247.699	247.608	247.480	247.358	247.446	247.354	247.418	25
26	247.426	247.425	247.468	247.567	247.663	247.601	247.636	247.468	247.376	247.428	247.353	247.416	26
27	247.427	247.422	247.467	247.567	247.681	247.657	247.636	247.464	247.398	247.415	247.373	247.420	27
28	247.425	247.428	247.471	247.569	247.636	247.661	247.620	247.466	247.381	247.393	247.382	247.421	28
29	247.421		247.473	247.577	247.590	247.676	247.587	247.459	247.370	247.406	247.386	247.420	29
30	247.418		247.475	247.577	247.560	247.648	247.576	247.467	247.339	247.418	247.392	247.~21	30
31	247.421		247.473		247.567		247.559	247.479		247.445		247.419	31
MEAN	247.422	247.420	247.460	247.515	247.608	247.651	247.647	247.513	247.411	247.406	247.436	247.408	MEAN
MAX	247.436	247.428	247.475	247.577	247.681	247.705	247.716	247.584	247.538	247.464	247.522	247.421	MAX
MIN	247.404	247.413	247.427	247.463	247.550	247.567	247.559	247.454	247.309	247.343	247.352	247.390	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 247.492
MAXIMUM DAILY, 247.715 ON JUL 16
MINIMUM DAILY, 247.[illegible] ON SEP 22
MAXIMUM INSTANTANEOUS,
247.764 AT 22:26 CST ON JUL 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 26 26 N
LONG 98 48 13 W

REGULATED SINCE 1934

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE MANITOBA AT THE NARROWS - STATION NO. 05LK003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.400E	247.411	247.423	247.454	247.561	247.625	247.634	247.581	247.430	247.335	247.318E	247.387	1
2	247.402E	247.406	247.424	247.456	247.564	247.637	247.675	247.567	247.476	247.363	247.330A	247.385	2
3	247.407E	247.411	247.424	247.457	247.553	247.580	247.619	247.561	247.406	247.356	247.509	247.391	3
4	247.406E	247.410	247.428	247.458	247.574	247.520	247.448	247.575	247.406	247.360	247.512	247.386	4
5	247.403E	247.410	247.427	247.461	247.558	247.601	247.666	247.518	247.417	247.303	247.349	247.384	5
6	247.399E	247.415	247.438	247.465	247.558	247.561	247.665	247.571	247.342	247.363	247.355	247.387	6
7	247.401E	247.411	247.454	247.470	247.572	247.646	247.656	247.485	247.434	247.380	247.354	247.385	7
8	247.401E	247.411	247.460	247.475	247.534	247.576	247.633	247.503	247.354	247.391	247.274	247.384	8
9	247.402E	247.416	247.461	247.477	247.674	247.662	247.673	247.543	247.302	247.511	247.371	247.387	9
10	247.403E	247.419	247.464	247.477	247.636	247.662	247.659	247.484	247.292	247.373	247.400	247.384	10
11	247.405E	247.420	247.467	247.485	247.416	247.657	247.610	247.533	247.359	247.255	247.400	247.389	11
12	247.403E	247.427	247.460	247.483	247.461	247.672	247.660	247.576	247.348	247.331	247.471	247.393	12
13	247.401E	247.423	247.455	247.500A	247.501	247.562	247.643	247.431	247.362	247.301	247.370	247.398	13
14	247.405E	247.418	247.454	247.489	247.509	247.577	247.653	247.518	247.397	247.302	247.301	247.391	14
15	247.408E	247.422	247.455	247.504	247.603	247.465	247.673	247.451	247.375	247.404	247.355	247.389	15
16	247.409E	247.414	247.457	247.507	247.625	247.626	247.623	247.532	247.445	247.323	247.503	247.401	16
17	247.410E	247.414	247.452	247.513	247.611	247.648	247.635	247.470	247.511	247.347	247.515	247.401	17
18	247.411A	247.416	247.449	247.515	247.627	247.653	247.626	247.465	247.258	247.382	247.388	247.401	18
19	247.409	247.418	247.449	247.520	247.521	247.657	247.636	247.363	247.282	247.381	247.335	247.404	19
20	247.411	247.424	247.452	247.520	247.646	247.627	247.605	247.484	247.173	247.453	247.264	247.404	20
21	247.411	247.426	247.452	247.519	247.573	247.621	247.619	247.417	247.195	247.412	247.241	247.398	21
22	247.406	247.424	247.453	247.523	247.599	247.597	247.558	247.423	247.307	247.422	247.383	247.402	22
23	247.[illegible]	247.419	247.454	247.530	247.605	247.643	247.535	247.447	247.377	247.410	247.365	247.404	23
24	247.[illegible]	247.421	247.456	247.535	247.622	247.648	247.598	247.447	247.357	247.384A	247.252	247.408	24
25	247.407	247.427	247.457	247.560	247.643	247.616	247.627	247.437	247.348	247.347E	247.297	247.414	25
26	247.[illegible]	247.422	247.453	247.545	247.694	247.581	247.642	247.626	247.368	247.330E	247.355	247.412	26
27	247.415	247.413	247.456	247.544	247.609	247.636	247.582	247.444	247.390	247.314E	247.365	247.413	27
28	247.413	247.418	247.458	247.547	247.445	247.646	247.558	247.429	247.261	247.297E	247.361	247.412	28
29	247.409		247.460	247.554	247.509	247.681	247.568	247.440	247.327	247.280E	247.383	247.418	29
30	247.[illegible]		247.460	247.557	247.525	247.600	247.558	247.453	247.317	247.306E	247.385	247.415	30
31	247.415		247.457		247.584		247.531	247.461		247.308E		247.414	31
MEAN	247.406	247.417	247.451	247.503	247.575	247.615	247.615	247.486	247.357	247.362	247.373	247.398	MEAN
MAX	247.415	247.427	247.467	247.567	247.694	247.672	247.685	247.587	247.511	247.511	247.509	247.417	MAX
MIN	247.399	247.406	247.423	247.454	247.416	247.465	247.448	247.363	247.173	247.255	247.241	247.384	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 247.484
MAXIMUM DAILY, 247.694 ON MAY 26
MINIMUM DAILY, 247.173 ON SEP 20
MAXIMUM INSTANTANEOUS,
247.866 AT 17:42 CST ON JUL 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 04 50 N
LONG 98 48 50 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1934

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE MANITOBA NEAR TOUTES AIDES - STATION NO. 05LK004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.336	247.338	247.342	247.377	247.478	247.485	247.582	247.468	247.381	247.253	247.405	247.313	1
2	247.336	247.337	247.342	247.372	247.484	247.541	247.639	247.505	247.401	247.252	247.410	247.316	2
3	247.342	247.323	247.340	247.368	247.476	247.580	247.658	247.509	247.283	247.253	247.453	247.324	3
4	247.340	247.327	247.344	247.366	247.482	247.526	247.579	247.521	247.320	247.313	247.537	247.322	4
5	247.342	247.327	247.340	247.368	247.487	247.430	247.499	247.495	247.386	247.271	247.495	247.324	5
6	247.330	247.333	247.341	247.375	247.483	247.406	247.575	247.477	247.359	247.304	247.431	247.324	6
7	247.337	247.337	247.352	247.378	247.476	247.474	247.584	247.472	247.335	247.269	247.425	247.327	7
8	247.344	247.331	247.355	247.390	247.501	247.461	247.582	247.415	247.381	247.261	247.346	247.324	8
9	247.340	247.333	247.361	247.395	247.545	247.521	247.617	247.461	247.349	247.325	247.388	247.324	9
10	247.341	247.342	247.373	247.392	247.574	247.565	247.637	247.451	247.380	247.404	247.458	247.321	10
11	247.330	247.339	247.361	247.391	247.483	247.583	247.631	247.435	247.346	247.325	247.468	247.322	11
12	247.336	247.347	247.378	247.390	247.582	247.650	247.651	247.491	247.386	247.270	247.496	247.320	12
13	247.337	247.348	247.368	247.375	247.596	247.593	247.578	247.434	247.356	247.311	247.489	247.325	13
14	247.331	247.342	247.360	247.373	247.458	247.570	247.589	247.426	247.293	247.334	247.421	247.326	14
15	247.326	247.347	247.364	247.384	247.451	247.488	247.558	247.430	247.371	247.365	247.398	247.321	15
16	247.332	247.343	247.369	247.390	247.455	247.483	247.588	247.457	247.367	247.398	247.448	247.319	16
17	247.337	247.336	247.367	247.400	247.512	247.539	247.567	247.475	247.374	247.394	247.535	247.320	17
18	247.340	247.336	247.362	247.410	247.530	247.511	247.567	247.443	247.391	247.361	247.539	247.319	18
19	247.345	247.335	247.359	247.421	247.545	247.473	247.590	247.325	247.166	247.363	247.478	247.320	19
20	247.345	247.339	247.358	247.423	247.533	247.439	247.584	247.347	247.126	247.335	247.466	247.320	20
21	247.344	247.348	247.359	247.423	247.580	247.567	247.590	247.392	247.118	247.385	247.426	247.320	21
22	247.342	247.347	247.364	247.423	247.516	247.577	247.485	247.348	247.088	247.398	247.390	247.321	22
23	247.334	247.342	247.369	247.432	247.555	247.577	247.467	247.356	247.136	247.433	247.340	247.322	23
24	247.323	247.344	247.377	247.442	247.537	247.540	247.484	247.385	247.212	247.361	247.301	247.322	24
25	247.323	247.351	247.378	247.454	247.568	247.542	247.523	247.402	247.236	247.328	247.277	247.328	25
26	247.326	247.354	247.375	247.454	247.655	247.585	247.588	247.387	247.268	247.362	247.271	247.323	26
27	247.342	247.349	247.372	247.445	247.620	247.576	247.551	247.383	247.339	247.356	247.284	247.333	27
28	247.344	247.342	247.373	247.450	247.588	247.565	247.504	247.406	247.301	247.278	247.298	247.332	28
29	247.334		247.374	247.455	247.614	247.585	247.490	247.396	247.235	247.301	247.296	247.332	29
30	247.328		247.366	247.466	247.595	247.604	247.489	247.399	247.270	247.351	247.300	247.329	30
31	247.337		247.382		247.657		247.468	247.402		247.377		247.328	31
MEAN	247.337	247.339	247.364	247.406	247.523	247.560	247.581	247.427	247.275	247.315	247.407	247.324	MEAN
MAX	247.345	247.354	247.382	247.466	247.655	247.673	247.658	247.521	247.401	247.433	247.539	247.333	MAX
MIN	247.323	247.323	247.340	247.368	247.451	247.408	247.468	247.325	247.088	247.204	247.271	247.313	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 247.404
MAXIMUM DAILY, 247.673 ON JUN 19
MINIMUM DAILY, 247.088 ON SEP 22
MAXIMUM INSTANTANEOUS,
247.745 AT 10:04 CST ON JUL 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 31 10 N
LONG 99 32 23 W

REGULATED SINCE 1934

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE MANITOBA NEAR WESTBOURNE - STATION NO. 05LL012

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	247.381	247.397	247.404	247.464	247.546	247.718E	247.659	247.514	247.376	247.377	247.387	247.376	1
2	247.374	247.391	247.406	247.479	247.544	247.704E	247.620	247.498	247.341	247.348	247.426	247.375	2
3	247.384	247.392	247.411	247.507	247.571	247.702E	247.600	247.518	247.309	247.366	247.178	247.371	3
4	247.381	247.390	247.410	247.520	247.554	247.721E	247.603	247.486	247.408	247.355	247.125	247.375	4
5	247.382	247.392	247.415	247.548	247.563	247.729E	247.618	247.541	247.380	247.391	247.251	247.380	5
6	247.382	247.387	247.430	247.565	247.587	247.733E	247.591	247.465	247.396	247.390	247.277	247.377	6
7	247.384	247.392	247.431	247.584	247.563	247.715E	247.614	247.536	247.389	247.372	247.306	247.378	7
8	247.385	247.394	247.433	247.586	247.530	247.720E	247.601	247.531	247.357	247.321	247.358	247.378	8
9	247.385	247.393	247.433	247.587	247.494	247.688E	247.582	247.466	247.388	247.327	247.338	247.372	9
10	247.385	247.387	247.430	247.633	247.482E	247.654E	247.565	247.524	247.258A	247.314	247.301	247.383	10
11	247.382	247.388	247.427	247.644	247.498E	247.619E	247.489	247.476	247.251E	247.411	247.285	247.385	11
12	247.382	247.393	247.434	247.626	247.529E	247.594E	247.561	247.387	247.244E	247.458	247.301	247.385	12
13	247.389	247.400	247.434	247.626	247.531E	247.590E	247.567	247.477	247.239E	247.371	247.243	247.385	13
14	247.386	247.400	247.441	247.621	247.562E	247.674A	247.580	247.428	247.254E	247.376	247.325	247.387	14
15	247.384	247.397	247.448	247.603	247.598E	247.751	247.540	247.462	247.277A	247.350	247.327	247.381	15
16	247.384	247.400	247.446	247.601	247.587E	247.640	247.545	247.400	247.288E	247.372	247.203	247.384	16
17	247.382	247.400	247.447	247.600	247.592A	247.590	247.529	247.404	247.255E	247.383	247.142	247.380	17
18	247.384	247.406	247.446	247.607	247.562	247.539	247.583	247.417	247.312E	247.397	247.220	247.376	18
19	247.392	247.409	247.445	247.607	247.575	247.519	247.580	247.455	247.360A	247.368	247.288	247.375	19
20	247.393	247.407	247.447	247.603	247.577	247.588	247.600	247.418	247.404	247.368	247.426	247.379	20
21	247.393	247.404	247.448	247.608	247.605	247.583	247.582	247.435	247.486	247.389	247.458	247.380	21
22	247.394	247.403	247.442	247.612	247.617	247.621	247.546	247.432	247.414	247.386	247.385	247.373	22
23	247.396	247.406	247.442	247.615	247.643	247.618	247.532	247.414	247.321	247.378	247.400	247.373	23
24	247.393	247.403	247.440	247.614	247.635	247.626	247.570	247.427	247.340	247.330	247.426	247.372	24
25	247.390	247.399	247.440	247.622	247.611	247.619	247.526	247.411	247.340	247.315	247.437	247.380	25
26	247.388	247.401	247.442	247.608	247.634	247.683	247.489	247.442	247.317	247.319	247.431	247.385	26
27	247.391	247.402	247.444	247.623	247.677	247.649	247.524	247.443	247.287	247.370	247.407	247.384	27
28	247.392	247.401	247.442	247.632	247.739	247.626	247.510	247.430	247.279	247.417	247.401	247.383	28
29	247.392		247.440	247.627	247.672E	247.608	247.556	247.448	247.256	247.394	247.383	247.374	29
30	247.390		247.441	247.643	247.707E	247.605	247.548	247.424	247.486	247.320	247.387	247.383	30
31	247.386		247.452		247.725E		247.563	247.385		247.283		247.385	31
MEAN	247.387	247.398	247.436	247.630	247.587	247.648	247.578	247.462	247.341	247.346	247.321	247.380	MEAN
MAX	247.396	247.409	247.452	247.644	247.739	247.781	247.603	247.541	247.486	247.486	247.458	247.391	MAX
MIN	247.374	247.387	247.404	247.484	247.483	247.519	247.489	247.385	247.239	247.227	247.125	247.371	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 247.451
MAXIMUM DAILY, 247.803 ON JUL 4
MINIMUM DAILY, 247.125 ON NOV 4
MAXIMUM INSTANTANEOUS,
248.065 AT 14:48 CST ON MAY 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 15 N
LONG 98 24 50 W

A - MANUAL GAUGE
E - ESTIMATED

REGULATED SINCE 1934

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1928 ADJ.)

REMARKS - A HIGHER MAXIMUM INSTANTANEOUS WATER LEVEL MAY HAVE OCCURRED DURING THE PERIOD OF ESTIMATED RECORD, MAY 25 TO JUN 14

LAKE OF THE PRAIRIES NEAR SHELLMOUTH - STATION NO. 05MD005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	426.010	425.472	425.050	424.356	427.038A	427.730	427.481	427.714	427.238	427.146	426.831	426.356	1
2	425.991	425.455	425.037	424.356	427.125E	427.717	427.561	427.718	427.227	427.167	426.800	426.345	2
3	425.974	425.437	425.020	424.357	427.212E	427.713	427.658	427.746	427.235	427.142	426.758	426.327	3
4	425.955	425.418	425.010	424.356	427.300A	427.687	427.699	427.772	427.221	427.125	426.741	426.314	4
5	425.937	425.401	424.996	424.353	427.386	427.658	427.662	427.782	427.205	427.136	426.750	426.299	5
6	425.919	425.381	424.992	424.353	427.466	427.630	427.710	427.784	427.209	427.107	426.729	426.283	6
7	425.906	425.363	424.986	424.352	427.520	427.600	427.749	427.784	427.165	427.069	426.727	426.270	7
8	425.891	425.347	424.973	424.356	427.581	427.578	427.788	427.729	427.175	427.050	426.710	426.252	8
9	425.873	425.329	424.955	424.362	427.603	427.534	427.817	427.751	427.169	427.017	426.678	426.237	9
10	425.857	425.316	424.937	424.372	427.656	427.520	427.842	427.688	427.213	427.031	426.680	426.224	10
11	425.837	425.301	424.926	424.382	427.694	427.491	427.770	427.784	427.207	427.016A	426.637	426.208	11
12	425.823	425.282	424.914	424.386	427.717	427.482	427.716	427.757	427.205	427.008A	426.600	426.194	12
13	425.811	425.271	424.895	424.391	427.742	427.460	427.703	427.730	427.195	427.009	426.618	426.178	13
14	425.787	425.256	424.862	424.393	427.715	427.451	427.706	427.642	427.182	427.012	426.602	426.167	14
15	425.769	425.241	424.855	424.402	427.709	427.426	427.605	427.611	427.194	427.003	426.576	426.149	15
16	425.751	425.228	424.838	424.403	427.694	427.380	427.626	427.526	427.173	427.022	426.524	426.130	16
17	425.730	425.215	424.825	424.404	427.695	427.332	427.562	427.477	427.185	427.004	426.530	426.113	17
18	425.710	425.201	424.794	424.406	427.682	427.277	427.533	427.453	427.200	426.996	426.533	426.097	18
19	425.701	425.186	424.759	424.418	427.703	427.267	427.523	427.436	427.185	426.985	426.526	426.080	19
20	425.683	425.170	424.727	424.460	427.681	427.235	427.542	427.370	427.186	426.959	426.528	426.057	20
21	425.665	425.159	424.696	424.556	427.727	427.204	427.580	427.301	427.178	426.989	426.518	426.031	21
22	425.647	425.146	424.661	424.711	427.728	427.213	427.563	427.316	427.151	426.970	426.489	426.004	22
23	425.631	425.131	424.626	424.886	427.745	427.199	427.580	427.283	427.141	426.972	426.476	425.976	23
24	425.613	425.111	424.589	425.094	427.757	427.180	427.626	427.272	427.151	426.969	426.470	425.948	24
25	425.594	425.094	424.558	425.381	427.751	427.220	427.656	427.268	427.149	426.954	426.450	425.926	25
26	425.574	425.083	424.523	425.679	427.756	427.248	427.658	427.251	427.140	426.931	426.433	425.902	26
27	425.556	425.076	424.485	425.933	427.781	427.267	427.684	427.224	427.148	426.924	426.414	425.875	27
28	425.540	425.064	424.451	426.166	427.787	427.289	427.674	427.218	427.177	426.902	426.404	425.847	28
29	425.526		424.412	426.378	427.775	427.327	427.707	427.237	427.169	426.880	426.392	425.822	29
30	425.507		424.380	426.577	427.769	427.361	427.689	427.265	427.154	426.850	426.374	425.799	30
31	425.485		424.384		427.753		427.696	427.233		426.830		425.770	31
MEAN	425.760	425.255	424.778	424.769	427.621	427.424	427.657	427.521	427.184	427.006	426.584	426.103	MEAN
MAX	426.010	425.472	425.050	426.577	427.787	427.730	427.842	427.784	427.238	427.146	426.831	426.356	MAX
MIN	425.485	425.064	424.384	424.352	427.038	427.180	427.481	427.218	427.140	426.830	426.374	425.770	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 426.480
MAXIMUM DAILY, 427.842 ON JUL 10
MINIMUM DAILY, 424.352 ON APR 7
MAXIMUM INSTANTANEOUS,
427.857 AT 12:08 CST ON JUL 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 56 N
LONG 101 35 21 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1969

DRAINAGE AREA,
17 600 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE ST. MARTIN NEAR HILBRE - STATION NO. 05LM005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	242.772	242.803	242.876	242.973	242.983	243.207	243.490	243.687	243.626	243.262	243.159	243.116	1
2	242.767	242.800	242.883	242.975	242.977	243.197	243.481	243.683	243.598	243.246	243.170	243.112	2
3	242.778	242.799	242.887	242.976	242.971	243.255	243.527	243.705	243.533	243.257	243.070	243.113	3
4	242.778	242.799	242.892	242.979	242.969	243.281	243.536	243.684	243.588	243.241	242.989	243.101	4
5	242.781	242.805	242.895	242.983	242.976	243.262	243.536	243.724	243.571	243.261	243.093	243.088	5
6	242.781	242.804	242.906	242.980	242.984	243.262	243.511	243.666	243.610	243.236	243.110	243.096	6
7	242.770	242.810	242.918	242.975	242.981	243.214	243.522	243.707	243.538	243.218	243.112	243.094	7
8	242.768	242.807	242.921	242.985	242.997	243.234	243.555	243.696	243.549	243.197	243.163	243.098	8
9	242.767	242.810	242.927	242.988A	243.008	243.192	243.539	243.683	243.529	243.115	243.128	243.103	9
10	242.766	242.819	242.930	242.985A	243.012	243.180	243.581	243.710	243.504	243.104	243.124	243.108	10
11	242.781	242.818	242.931	242.982A	243.081	243.197	243.576	243.690	243.502	243.246	243.117	243.118	11
12	242.788	242.821	242.935	242.981A	243.154	243.238	243.571	243.655	243.488	243.231	243.098	243.118	12
13	242.789	242.824	242.938	242.983	243.160	243.245	243.594	243.690	243.475	243.197	243.113	243.118	13
14	242.780	242.823	242.936	242.985	243.155	243.267	243.605	243.683	243.457	243.202	243.146	243.132	14
15	242.790	242.827	242.939	242.987	243.133	243.288	243.620	243.684	243.453	243.186	243.137	243.129	15
16	242.792	242.832	242.943	242.988	243.107	243.286	243.621	243.659	243.403	243.190	243.076	243.112	16
17	242.787	242.831	242.945	242.989	243.111	243.273	243.619	243.662	243.315	243.182	243.098	243.125	17
18	242.792	242.837	242.944	242.991	243.103	243.244	243.641	243.665	243.318	243.176	243.101	243.128	18
19	242.798	242.845	242.944	242.992	243.175	243.261	243.684	243.683	243.341	243.101	243.136	243.129	19
20	242.800	242.848	242.944	243.000	243.121	243.312	243.685	243.641	243.384	243.077	243.182	243.126	20
21	242.801	242.851	242.942	243.004	243.167	243.318	243.672	243.653	243.406	243.128	243.215	243.138	21
22	242.802	242.854	242.944	243.013	243.172	243.364	243.680	243.648	243.351	243.124	243.178	243.141	22
23	242.801	242.856	242.945	243.017	243.183	243.372	243.695	243.632	243.301	243.120	243.182	243.149	23
24	242.795	242.854	242.951	243.017	243.185	243.384	243.677	243.635	243.304	243.167	243.168	243.153	24
25	242.788	242.858	242.956	243.015	243.189	243.417	243.656	243.648	243.301	243.121	243.179	243.163	25
26	242.790	242.866	242.961	243.004	243.188	243.454	243.607	243.645	243.290*	243.122	243.164	243.166	26
27	242.787	242.868	242.965	242.994	243.186	243.482	243.678	243.634	243.281	243.149	243.169	243.170	27
28	242.801	242.868	242.966	242.991	243.271	243.454	243.681	243.647	243.310	243.153	243.163	243.170	28
29	242.801		242.970	242.988	243.255	243.449	243.705	243.646	243.268	243.093	243.124	243.188	29
30	242.788		242.975	242.986	243.265	243.482	243.681	243.641	243.268	243.110	243.123	243.185	30
31	242.789		242.975		243.230		243.703	243.621		243.081		243.167	31
MEAN	242.786	242.830	242.935	242.990	243.110	243.303	243.612	243.666	243.427	243.175	243.130	243.128	MEAN
MAX	242.802	242.868	242.975	243.017	243.271	243.482	243.705	243.724	243.628	243.262	243.215	243.170	MAX
MIN	242.767	242.799	242.876	242.973	242.969	243.180	243.481	243.621	243.261	243.077	242.989	243.088	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 243.177
MAXIMUM DAILY, 243.724 ON AUG 5
MINIMUM DAILY, 242.767 ON JAN 2
MAXIMUM INSTANTANEOUS,
243.803 AT 02:24 CST ON AUG 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 30 33 N
LONG 98 31 38 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEG AT GERRENS RIVER - STATION NO 05RD005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217 379	217 353	217 386	217 403	217 558	217 655	217 600	217 656	217 706	217 535	217 482	217 410A	1
2	217 376	217 346	217 389	217 403	217 578	217 652	217 601	217 656	217 751	217 544	217 339	217 401A	2
3	217 367	217 351	217 404	217 408	217 571	217 639	217 611	217 632	217 650	217 493	217 297	217 340A	3
4	217 377	217 357	217 402	217 409	217 562	217 646	217 627	217 648	217 749	217 521	217 415	217 389A	4
5	217 365	217 354	217 417	217 404	217 570	217 662	217 625	217 651	217 689	217 717	217 477	217 371A	5
6	217 376	217 361	217 433	217 409	217 571	217 678	217 630	217 648	217 722	217 586	217 395	217 749A	6
7	217 372	217 362	217 402	217 408	217 564	217 663	217 611	217 916	217 680	217 539	217 550	217 371A	7
8	217 363	217 360	217 446	217 409	217 556	217 686	217 609	217 828	217 767	217 535	217 401	217 358A	8
9	217 365	217 356	217 437	217 411	217 571	217 676	217 612	217 827	217 677	217 468	217 388	217 380A	9
10	217 370	217 361	217 422	217 528	217 577	217 692	217 636	217 650	217 653	217 555	217 377	217 358A	10
11	217 380	217 371	217 432	217 536	217 570	217 687	216 005	217 618	217 700	217 546	217 354	217 371A	11
12	217 380	217 356	217 463	217 561	217 587	217 678	217 667	217 608	217 707	217 465	217 333	217 380A	12
13	217 368	217 376	217 463	217 567	217 619	217 701	217 670	217 901	217 667	217 479	217 454	217 358A	13
14	217 366	217 371	217 454	217 560	217 573	217 727	217 663	217 815	217 684	217 503	217 371	217 389A	14
15	217 375	217 356	217 460	217 554	217 590	217 745	217 671	217 669	217 627	217 478	217 337	217 371A	15
16	217 368	217 377	217 483	217 567	217 606	217 726	217 663	217 736	217 684	217 707	217 276	217 371A	16
17	217 338	217 377	217 484	217 563	217 613	217 720	217 695	217 620	217 686	217 528	217 329	217 358A	17
18	217 331	217 372	217 468	217 568	217 618	217 710	217 695	217 792	216 020	217 485	217 352	217 380A	18
19	217 329	217 373	217 466	217 567	217 598	217 725	217 678	216 185	217 662	217 464	217 345	217 358A	19
20	217 334	217 375	217 473	217 568	217 606	217 734	217 666	217 739	217 730	217 463	217 314	217 358A	20
21	217 331	217 373	217 479	217 564	217 603	217 742	217 651	217 622	217 686	217 518	217 354	217 358A	21
22	217 336	217 383	217 473	217 548	217 622	217 749	217 637	217 702	217 590	217 413	217 326	217 380A	22
23	217 349	217 381	217 474	217 550	217 645	217 773	217 677	217 776	217 580	217 515	217 406	217 380A	23
24	217 347	217 377	217 468	217 546	217 624	217 766	217 666	217 757	217 600	217 545	217 680	217 380A	24
25	217 337	217 388	217 487	217 561	217 638	217 765	217 656	217 705	217 580	217 498	217 427	217 389A	25
26	217 338	217 381	217 482	217 551	217 631	217 770	217 677	217 706	217 537	217 464	217 389	217 380A	26
27	217 331	217 680	217 488	217 537	217 644	217 785	217 675	217 780	217 512	217 530	217 363	217 380A	27
28	217 342	217 682	217 485	217 556	217 673	217 780	217 673	217 795	217 708	217 504	217 382	217 371A	28
29	217 353		217 480	217 559	217 690	217 800	217 685	217 751	217 593	217 449	217 389A	217 340A	29
30	217 367		217 480	217 561	217 698	217 770	217 683	217 700	217 614	217 451	217 418A	217 371A	30
31	217 338		217 488		217 697		217 667	217 704		217 493		217 358A	31
MEAN	217 351	217 360	217 464	217 534	217 604	217 720	217 658	217 622	217 682	217 518	217 390	217 371	MEAN
MAX	217 378	217 402	217 487	217 561	217 673	217 800	216 005	216 185	216 020	217 717	217 680	217 410	MAX
MIN	217 321	217 341	217 386	217 403	217 558	217 629	217 600	217 734	217 512	217 413	217 276	217 340	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 217 558
MAXIMUM DAILY, 216 185 ON AUG 19
MINIMUM DAILY, 217 276 ON NOV 16
MAXIMUM INSTANTANEOUS,
216 650 AT 06 01 CST ON AUG 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 21 20 N
LONG 97 06 15 W

A - MANUAL GAUGE

REGULATED SINCE 1975

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEG AT GEORGE ISLAND - STATION NO 05RE003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	217 382	217 383	217 402	217 546	217 639	217 795	217 816	---	---	217 491	217 402	1
2	---	217 362	217 389	217 406	217 547	217 641	217 819	217 824	---	---	217 411	217 363	2
3	---	217 386	217 383	217 402	217 548	217 681	217 809	217 786	---	---	217 521	217 364	3
4	---	217 368	217 406	217 406	217 544	217 623	217 793	217 813	---	217 508A	---	217 339A	4
5	---	217 368	217 402	217 500	217 543	217 650	217 800	217 788	---	217 504	217 520A	---	5
6	---	217 387	217 411	217 504	217 549	217 681	217 825	217 817	---	217 534	217 436	---	6
7	---	217 365	217 420	217 509	217 537	217 680	217 790	217 786	---	217 559	217 485	---	7
8	---	217 368	217 431	217 514	217 543	217 680	217 783	217 758	---	217 559	217 398	---	8
9	---	217 380	217 431	217 532	217 558	217 679	217 803	217 800	---	217 608	217 407	---	9
10	---	217 368	217 437	217 530	217 594	217 781	217 788	217 773	---	217 583	217 411	---	10
11	217 372A	217 388	217 449	217 527	217 548	217 677	217 813	217 775	---	217 498	217 410	---	11
12	217 385	217 376	217 460	217 528	217 527	217 674	217 795	217 810	---	217 486	217 427	---	12
13	217 368	217 380	217 468	217 531	217 590	217 675	217 804	217 806A	---	217 542	217 470	---	13
14	217 351	217 371	217 438	217 533	217 538	217 702	217 790	---	---	217 534	217 385	---	14
15	217 387	217 377	217 462	217 528	217 573	217 675	217 805	---	---	217 528	217 368	---	15
16	217 359	217 376	217 451	217 535	217 592	217 717	217 820	---	---	217 572	217 406A	---	16
17	217 364	217 385	217 449	217 541	217 602	217 729	217 831	---	---	217 524	---	---	17
18	217 380	217 383	217 485	217 563	217 605	217 720	217 830	---	---	217 517	217 418A	---	18
19	217 383	217 386	217 486	217 564	217 573	217 736	217 822	---	---	217 533	217 387	---	19
20	217 383	217 380	217 463	217 567	217 602	217 717	217 821	---	---	217 573	217 389	---	20
21	217 385	217 382	217 466	217 538	217 635	217 736	217 816	---	---	217 572	217 376	---	21
22	217 364	217 386	217 471	217 539	217 586	217 732	217 828	---	---	217 516	217 333	---	22
23	217 368	217 386	217 471	217 563	217 618	217 766	217 784	---	---	217 556	217 371	---	23
24	217 369	217 383	217 481	217 562	217 606	217 770	217 830	---	---	217 511	217 368	---	24
25	217 339	217 384	217 481	217 561	217 636	217 783	217 830	---	---	217 506	217 388	---	25
26	217 335	217 386	217 484	217 553	217 648	217 773	217 800	---	---	217 482	217 361	---	26
27	217 339	217 383	217 480	217 556	217 634	217 781	217 807	---	---	217 504	217 382	---	27
28	217 351	217 387	217 480	217 564	217 605	217 780	217 805	---	---	217 446	217 335	---	28
29	217 360		217 485	217 564	217 607	217 789	217 790	---	---	217 500	217 325	---	29
30	217 368		217 483	217 564	217 630	217 783	217 805	---	---	217 502	217 365	---	30
31	217 367		217 480		217 638		217 785	---	---	217 511		---	31
MEAN	---	217 380	217 469	217 528	217 591	217 700	217 807	---	---	---	---	---	MEAN
MAX	---	217 388	217 486	217 563	217 648	217 780	217 840	---	---	---	---	---	MAX
MIN	---	217 362	217 383	217 402	217 527	217 623	217 783	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 01 00 N
LONG 97 37 30 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1978 ADJ)

LAKE WINNIPEG AT GIMLI - STATION NO 05SD004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.371	217.348	217.424	217.489	217.520	217.665	217.850	217.795	217.678	217.677	217.281	217.282	1
2	217.362	217.375	217.425	217.493	217.520	217.646	217.734	217.663	217.616	217.556	217.636	217.414	2
3	217.361	217.380	217.428	217.492	217.526	217.678	217.785	217.645	217.581	217.635	217.131	217.281	3
4	217.370	217.379	217.430	217.492	217.529	217.678	218.186	217.712	217.781	217.460	216.636	217.393	4
5	217.365	217.379	217.436	217.491	217.530	217.726	217.923	217.921	217.695	217.671	216.965	217.389	5
6	217.364	217.374	217.462	217.489	217.535	217.600	217.840	217.716	217.662	217.677	217.461	217.336	6
7	217.360	217.362	217.474	217.482	217.535	217.675	217.815	217.818	217.673	217.572	217.183	217.382	7
8	217.367	217.398	217.472	217.489	217.534	217.687	217.853	218.017	217.647	217.487	217.607	217.364	8
9	217.363	217.397	217.466	217.487	217.516	217.577	217.768	217.700	217.752	217.228	217.434	217.330	9
10	217.358	217.394	217.463	217.495	217.570	217.647	217.813	217.841	217.528	217.363	217.381	217.377	10
11	217.368	217.393	217.447	217.513	217.606	217.578	217.742	217.707	217.691	217.730	217.389	217.379	11
12	217.370	217.395	217.429	217.520	217.611	217.555	217.784	217.804	217.733	217.605	217.184	217.356	12
13	217.369	217.362	217.443	217.531	217.548	217.670	217.725	217.716	217.776	217.481	217.640	217.347	13
14	217.368	217.392	217.456	217.530	217.610	217.654	217.837	217.702	217.677	217.566	217.501	217.396	14
15	217.370	217.392	217.457	217.542	217.651	217.976	217.724	217.814	217.830	217.456	217.417	217.415	15
16	217.356	217.381	217.456	217.542	217.528	217.747	217.800	217.784	217.516	217.558	217.148	217.347	16
17	217.362	217.393	217.455	217.540	217.513	217.820	217.771	217.565	216.994	217.641	216.742	217.343	17
18	217.377	217.394	217.456	217.539	217.549	217.603	217.870	217.770	217.184	217.584	217.010	217.339	18
19	217.368	217.404	217.455	217.537	217.718	217.950	217.831	217.888	217.631	217.429	217.315	217.330	19
20	217.360	217.405	217.453	217.536	217.620	217.662	217.863	217.932	217.962	217.222	217.523	217.326	20
21	217.362	217.403	217.454	217.533	217.531	217.660	217.864	217.665	218.039	217.209	217.784	217.381	21
22	217.354	217.396	217.456	217.531	217.733	217.603	217.821	217.862	217.830	217.385	217.527	217.372A	22
23	217.362	217.395	217.456	217.528	217.628	217.714	218.079	217.654	217.430	217.167	217.304	217.382A	23
24	217.376	217.395	217.456	217.527	217.732	217.766	217.876	217.697	217.411	217.539	217.773	217.386A	24
25	217.377	217.393	217.456	217.523	217.612	217.765	217.766	217.689	217.616	217.471	217.926	217.342A	25
26	217.360	217.384	217.463	217.523	217.536	217.836	217.817	217.744	217.554	217.474	217.606	217.341	26
27	217.357	217.395	217.470	217.521	217.625	217.605	217.806	217.604	217.385	217.430	217.394	217.316	27
28	217.348	217.422	217.471	217.520	217.769	217.780	217.827	217.698	217.676	217.619	217.412	217.352	28
29	217.356		217.473	217.519	217.849	217.717	217.935	217.756	217.796	217.424	217.497	217.306	29
30	217.363		217.472	217.520	217.788	217.826	217.862	217.711	217.656	217.272	217.434	217.353	30
31	217.380		217.474		217.731		217.927	217.806		217.208		217.398	31
MEAN	217.366	217.389	217.455	217.516	217.632	217.702	217.829	217.746	217.637	217.500	217.356	217.355	MEAN
MAX	217.380	217.422	217.474	217.542	217.849	217.976	218.186	218.017	218.039	217.677	217.926	217.415	MAX
MIN	217.348	217.348	217.424	217.487	217.513	217.447	217.617	217.604	216.994	217.167	216.636	217.281	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 217.541
MAXIMUM DAILY, 218.186 ON JUL 4
MINIMUM DAILY, 216.636 ON NOV 4
MAXIMUM INSTANTANEOUS,
218.303 AT 20:30 CST ON JUL 4

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 37 50 N
LONG 96 58 58 W

A - MANUAL GAUGE

REGULATED SINCE 1976

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEG AT MATHESON ISLAND LANDING - STATION NO 05SD002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	217.660A	217.799	217.841	217.776	217.818	---	---	1
2	---	---	---	---	---	217.654	217.768	217.814	217.705	217.597	---	---	2
3	---	---	---	---	---	217.673	217.830	217.848	217.644	217.577	---	---	3
4	---	---	---	---	---	217.732	217.950	217.810	217.781	217.535	---	---	4
5	---	---	---	---	---	217.698	217.811	217.868	217.699	217.786	---	---	5
6	---	---	---	---	---	217.730	217.780	217.790	217.778	217.746	---	---	6
7	---	---	---	---	---	217.652	217.815	217.934	217.654	217.590	---	---	7
8	---	---	---	---	---	217.667	217.823	217.898	217.768	217.563	---	---	8
9	---	---	---	---	---	217.830	217.777	217.790	217.712	217.378	---	---	9
10	---	---	---	---	---	217.620	217.839	217.865	217.821	217.564	---	---	10
11	---	---	---	---	---	217.651	217.942	217.808	217.774	217.783	---	---	11
12	---	---	---	---	---	217.642	217.796	217.790	217.736	217.602	---	---	12
13	---	---	---	---	---	217.710	217.645	217.901	217.748	217.513	---	---	13
14	---	---	---	---	---	217.715	217.829	217.786	217.674	217.577	---	---	14
15	---	---	---	---	---	217.833	217.816	217.849	217.642	217.506	---	---	15
16	---	---	---	---	---	217.713	217.870	217.715	217.541	217.703	---	---	16
17	---	---	---	---	---	217.684	217.849	217.765	217.387	217.606	---	---	17
18	---	---	---	---	---	217.671	217.869	217.810	217.782	217.596	---	---	18
19	---	---	---	---	---	217.668	217.866	218.136	217.662	217.492	---	---	19
20	---	---	---	---	---	217.728	217.903	217.758	217.919	217.390	---	---	20
21	---	---	---	---	---	217.705	217.837	217.810	217.912	217.405	---	---	21
22	---	---	---	---	---	217.764	217.930	217.822	217.701	217.441	---	---	22
23	---	---	---	---	---	217.783	217.867	217.747	217.572	217.430	---	---	23
24	---	---	---	---	---	217.766	217.856	217.706	217.612	217.610	---	---	24
25	---	---	---	---	---	217.787	217.833	217.784	217.823	217.537	---	---	25
26	---	---	---	---	---	217.666	217.790	217.779	217.591	217.462	---	---	26
27	---	---	---	---	---	217.782	217.662	217.782	217.669	217.581	---	---	27
28	---	---	---	---	---	217.782	217.872	217.782	217.768	217.721	---	---	28
29	---		---	---	---	217.770	217.915	217.788	217.645	217.426	---	---	29
30	---		---	---	---	217.781	217.859	217.789	217.572	217.477	---	---	30
31	---		---		---		217.891	217.730		217.413		---	31
MEAN	---	---	---	---	---	217.715	217.851	217.814	217.706	217.555	---	---	MEAN
MAX	---	---	---	---	---	217.833	217.967	218.126	217.921	217.806	---	---	MAX
MIN	---	---	---	---	---	217.620	217.764	217.700	217.387	217.378	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 218.136 ON AUG 19

MAXIMUM INSTANTANEOUS,
218.462 AT 10:20 CST ON AUG 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 44 00 N
LONG 96 54 00 W

A - MANUAL GAUGE

REGULATED SINCE 1976

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEG AT MISSION POINT - STATION NO. 05SL001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.406	217.403	217.450	217.508	217.598	217.693	217.812	217.858	217.847	217.565	217.491	217.325A	1
2	217.416	217.398	217.449	217.522	217.575	217.700	217.892	217.877	217.784	217.588	217.395	---	2
3	217.415	217.404	217.450	217.316	217.561	217.650	217.815	217.797	217.815	217.594	217.589	217.327A	3
4	217.409	217.409	217.470	217.526	217.596	217.643	217.868	217.880	217.610	217.635	217.687	217.353	4
5	217.429	217.409	217.443	217.542	217.580	217.674	217.821	217.780	217.737	217.393	217.532	217.368A	5
6	217.406	217.430	217.434	217.545	217.578	217.675	217.838	217.736	217.822	217.341	217.352	217.379A	6
7	217.422	217.401	217.459	217.558	217.611	217.725	217.857	217.836	217.766	217.540	217.502	217.386	7
8	217.439	217.413	217.478	217.572	217.630	217.727	217.829	217.832	217.858	217.549	217.390A	217.368A	8
9	217.407	217.436	217.498	217.552	217.613	217.803	217.779	217.778	217.783	217.674	217.494	---	9
10	217.399	217.444	217.524	217.529	217.599	217.777	217.912	217.862	217.672	217.608	217.515A	217.387A	10
11	217.383	217.426	217.526	217.538	217.562	217.769	217.863	217.915	217.848	217.405	---	---	11
12	217.406	217.464	217.498	217.544	217.598	217.781	217.919	217.736	217.898	217.481	217.567A	---	12
13	217.398	217.434	217.474	217.544	217.591	217.712	217.876	217.837	217.675	217.554	217.558A	---	13
14	217.390	217.437	217.484	217.588	217.610	217.730	217.809	217.798	217.726	217.520	---	---	14
15	217.423	217.460	217.504	217.581	217.648	217.684	217.893	217.808	217.731	217.562	217.465A	---	15
16	217.386	217.421	217.506	217.590	217.658	217.789	217.900	217.882	217.779	217.383	217.578	---	16
17	217.398	217.421	217.484	217.600	217.653	217.835	217.893	217.808	217.881	217.189	217.668A	---	17
18	217.464	217.426	217.484	217.603	217.632	217.807	217.882	217.599	217.513	217.487	---	---	18
19	217.430	217.423	217.493	217.599	217.607	217.778	217.884	217.557	217.635	217.514	217.440A	---	19
20	217.435	217.445	217.499	217.584	217.681	217.762	217.769	217.844	217.865	217.603	217.437	---	20
21	217.430	217.456	217.502	217.585	217.623	217.761	217.845	217.723	217.679	217.586	217.409A	---	21
22	217.415	217.447	217.511	217.598	217.661	217.768	217.895	217.794	217.670E	217.557	217.510A	---	22
23	217.390	217.440	217.517	217.598	217.636	217.793	217.930	217.810	217.655	217.614	217.459	---	23
24	217.365A	217.459	217.536	217.509	217.673	217.814	217.916	217.825	217.625	217.424	217.127A	---	24
25	217.399	217.490	217.518	217.593	217.695	217.773	217.853	217.811	217.618	217.434	---	---	25
26	217.410	217.451	217.519	217.578	217.695	217.808	217.844	217.795	217.661	217.484	217.381A	---	26
27	217.432	217.416	217.532	217.586	217.656	217.825	217.830	217.830	217.734	217.482	217.423	---	27
28	217.415	217.437	217.543	217.589	217.587	217.819	217.853	217.817	217.401	217.254	217.437A	---	28
29	217.381		217.558	217.590	217.626	217.790	217.833	217.793	217.517	217.457	217.352A	---	29
30	217.401		217.551	217.591	217.534	217.839	217.863	217.818	217.576	217.528	217.324	---	30
31	217.427		217.509		217.669		217.891	217.813		217.528		---	31
MEAN	217.411	217.433	217.498	217.567	217.625	217.759	217.868	217.800	217.689	217.488	---	---	MEAN
MAX	217.464	217.490	217.558	217.603	217.695	217.839	217.930	217.915	217.881	217.674	---	---	MAX
MIN	217.383	217.398	217.434	217.508	217.562	217.643	217.692	217.557	217.401	217.189	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 217.930 ON JUL 23
MINIMUM DAILY, 217.127A ON NOV 24
MAXIMUM INSTANTANEOUS,
218.157 AT 11:26 CST ON SEP 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 11 00 N
LONG 99 13 30 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1976

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1958 ADJ.)

LAKE WINNIPEG AT MONTREAL POINT - STATION NO. 05RF001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.391	217.382	217.410	217.469	217.542	217.651	217.743	217.835	217.722	217.580	217.413	217.304	1
2	217.401	217.376	217.406	217.484	217.537	217.628	217.762	217.844	217.774	217.620	217.339	217.239	2
3	217.385	217.386	217.405	217.480	217.548	217.610	217.731	217.802	217.865	217.588	217.673	217.339	3
4	217.400	217.387	217.430	217.469	217.548	217.591	217.893	217.851	217.687	217.720	217.862	217.245	4
5	217.398	217.381	217.401	217.484	217.563	217.684	217.776	217.773	217.889	217.827	217.862	217.265	5
6	217.383	217.387	217.400	217.488	217.561	217.641	217.822	217.853	217.501	217.589	217.427	217.261	6
7	217.386	217.373	217.435	217.507	217.564	217.683	217.764	217.756	217.758	217.735	217.441	217.286	7
8	217.405	217.375	217.443	217.517	217.562	217.677	217.784	217.720	217.675	217.712	217.235	217.275	8
9	217.406	217.382	217.452	217.518	217.571	217.724	217.802	217.844	217.627	217.844	217.389	217.288	9
10	217.387	217.410	217.465	217.502	217.556	217.758	217.775	217.721	217.566	217.883	217.386	217.253A	10
11	217.380	217.387	217.435	217.498	217.562	217.713	217.767	217.780	217.580	217.427	217.392	---	11
12	217.386	217.416	217.445	217.518	217.522	217.728	217.841	217.874	217.627	217.530	217.494	---	12
13	217.380	217.389	217.426	217.512	217.594	217.684	217.838	217.753	217.596	217.673	217.502	---	13
14	217.382	217.400	217.435	217.527	217.561	217.698	217.816	217.804	217.636	217.515	217.273	---	14
15	217.380	217.408	217.440	217.529	217.603	217.580	217.806	217.777	217.633	217.564	217.317	---	15
16	217.374	217.402	217.455	217.542	217.626	217.705	217.852	217.798	217.790	217.463	217.490	---	16
17	217.389	217.387	217.439	217.563	217.629	217.768	217.886	217.798	218.056	217.386	217.653	---	17
18	217.381	217.375	217.442	217.551	217.615	217.762	217.835	217.735	217.781	217.438	217.476	---	18
19	217.379	217.390	217.449	217.560	217.670	217.763	217.862	217.822	217.601	217.577	217.329	---	19
20	217.378	217.408	217.453	217.551	217.617	217.716	217.814	217.732	217.490	217.708	217.213	---	20
21	217.381	217.412	217.456	217.536	217.621	217.704	217.843	217.780	217.485	217.838	217.028	---	21
22	217.382	217.416	217.470	217.540	217.609	217.707	217.883	217.881	217.660	217.548	217.222	---	22
23	217.374	217.406	217.463	217.548	217.625	217.735	217.754	217.774	217.872	217.608	217.301	---	23
24	217.372	217.410	217.476	217.548	217.619	217.726	217.842	217.722	217.800	217.444	217.057	---	24
25	217.387	217.421	217.472	217.534	217.636	217.713	217.866	217.727	217.696	217.471	217.020	---	25
26	217.387	217.41[illegible]	217.468	217.542	217.666	217.681	217.908	217.712	217.640	217.470	217.223	---	26
27	217.384	217.380	217.473	217.584	217.647	217.783	217.842	217.722	217.784	217.425	217.330	---	27
28	217.388	217.395	217.483	217.595	217.589	217.768	217.831	217.715	217.UT1	217.268	217.283	---	28
29	217.380		217.496	217.556	217.564	217.777	217.753	217.883	217.830	217.519	217.181	---	29
30	217.370		217.490	217.548	217.601	217.748	217.814	217.706	217.840	217.480	217.376	---	30
31	217.386		217.465		217.626		217.701	217.707		217.525		---	31
MEAN	217.387	217.397	217.448	217.528	217.589	217.702	217.806	217.763	217.683	217.560	217.352	---	MEAN
MAX	217.406	217.431	217.496	217.595	217.666	217.777	217.908	217.874	218.056	217.884	217.862	---	MAX
MIN	217.380	217.373	217.400	217.469	217.522	217.580	217.593	217.832	217.485	217.268	217.020	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 218.056 ON SEP 17
MINIMUM DAILY, 217.020 ON NOV 25
MAXIMUM INSTANTANEOUS,
218.434 AT 05:30 CST ON SEP 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 27 30 N
LONG 97 50 40 W

A - MANUAL GAUGE

REGULATED SINCE 1976

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEG AT PINE DOCK - STATION NO 05SA001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	217.339	217.375	217.479	217.520	217.631	217.771	217.783	217.721	217.579	---	---	1
2	---	217.343	217.390	217.487	217.531	217.629	217.736	217.783	217.683	217.561	---	---	2
3	---	217.358	217.393	217.478	217.539	217.648	217.787	217.800	217.704	217.535	---	---	3
4	---	217.331	217.381	217.473	217.529	217.719	217.948	217.784	217.737	217.488	---	---	4
5	---	217.334	217.413	217.487	217.561	217.689	217.807	217.847	217.854	217.510A	---	---	5
6	---	217.309	217.432	217.488	217.542	217.708	217.726	217.762	217.712	---	---	---	6
7	---	217.354	217.430	217.480	217.541	217.622	217.777	217.687	217.624	---	---	---	7
8	---	217.348	217.426	217.482	217.503	217.640	217.786	217.676	217.586	---	---	---	8
9	---	217.336	217.414	217.470	217.512	217.594	217.732	217.731	217.573	---	---	---	9
10	---	217.337	217.384	217.511	217.540	217.585	217.785	217.634	217.584	---	---	---	10
11	---	217.359	217.381	217.506	217.540	217.619	217.836	217.770	217.745	---	---	---	11
12	---	217.332	217.423	217.518	217.574	217.640	217.757	217.647	217.682	---	---	---	12
13	---	217.356	217.457	217.531	217.503	217.680	217.795	217.630	217.699	---	---	---	13
14	---	217.358	217.435	217.524	217.544	217.674	217.786	217.761	217.622	---	---	---	14
15	---	217.332	217.428	217.527	217.582	217.624	217.782	217.771	217.587	---	---	---	15
16	---	217.387	217.423	217.518	217.584	217.603	217.827	217.801	217.607	---	---	---	16
17	---	217.385	217.450	217.504	217.584	217.644	217.690	217.713	217.203	---	---	---	17
18	---	217.363	217.449	217.509	217.562	217.633	217.825	217.766	217.660	---	---	---	18
19	---	217.366	217.451	217.507	217.538	217.621	217.819	218.065	217.642	---	---	---	19
20	217.324A	217.362	217.449	217.520	217.562	217.692	217.835	217.783	217.673	---	---	---	20
21	217.318	217.362	217.449	217.527	217.569	217.695	217.840	217.763	217.675	---	---	---	21
22	217.326	217.363	217.446	217.518	217.533	217.739	217.686	217.789	217.681	---	---	---	22
23	217.345	217.374	217.444	217.512	217.507	217.728	217.841	217.698	217.526	---	---	---	23
24	217.346	217.384	217.427	217.507	217.514	217.733	217.819	217.711	217.537	---	---	---	24
25	217.323	217.323	217.400	217.506	217.507	217.750	217.789	217.716	217.577	---	---	---	25
26	217.320	217.386	217.400	217.519	217.508	217.771	217.727	217.735	217.546	---	---	---	26
27	217.300	217.384	217.450	217.521	217.513	217.781	217.813	217.703	217.435	---	---	---	27
28	217.329	217.367	217.454	217.522	217.508	217.787	217.822	217.727	217.592	---	---	---	28
29	217.350		217.440	217.522	217.503	217.741	217.873	217.724	217.616	---	---	---	29
30	217.336		217.446	217.527	217.504	217.747	217.813	217.715	217.524	---	---	---	30
31	217.313		217.481		217.556		217.854	217.677		---		---	31
MEAN	---	217.350	217.431	217.503	217.581	217.683	217.810	217.764	217.651	---	---	---	MEAN
MAX	---	217.404	217.481	217.531	217.608	217.834	217.948	218.065	217.875	---	---	---	MAX
MIN	---	217.309	217.375	217.462	217.503	217.585	217.726	217.647	217.203	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

A - MANUAL GAUGE

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 33 30 N
LONG 96 07 45 W

MAXIMUM DAILY, 218.065 ON AUG 19

MAXIMUM INSTANTANEOUS,
218.232 AT 10 30 CST ON AUG 19

REGULATED SINCE 1975

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEG AT VICTORIA BEACH - STATION NO 05SA003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.421	217.398	217.446	217.506	217.505	217.697	217.805	217.849	217.730	217.730	217.334	217.413	1
2	217.383	217.437	217.467	217.546	217.508	217.671	217.768A	217.736	217.686	217.607	217.680	217.464	2
3	217.415	217.411	217.477	217.560	217.600	217.705	---	217.696	217.687	217.663	217.187	217.323	3
4	217.396	217.403	217.446	217.560	217.595	217.695	---	217.787	217.643	217.510	216.717	217.402	4
5	217.396	217.408	217.500	217.539	217.607	217.786	217.868A	217.857	217.781	217.787	217.004	217.402	5
6	217.400	217.410	217.531	217.540	217.637	217.680	217.804	217.786	217.735	217.953	217.518	217.382	6
7	217.417	217.434	217.533	217.541	217.637	217.714	217.848	217.880	217.730	217.618	217.272	217.407	7
8	217.372	217.449	217.503	217.536	217.531	217.721	217.878	218.083	217.672	217.548	217.681	217.402A	8
9	217.401	217.408	217.485	217.534	217.480	217.823	217.774	217.773	217.785	217.356	217.483	---	9
10	217.404	217.396	217.453	217.504	217.554	217.508	217.844	217.857	217.666	217.383	217.415	---	10
11	217.447	217.435	217.432	217.507	217.572	217.644	217.802A	217.902	217.954	217.830	217.328	---	11
12	217.370	217.368	217.486	217.510	217.781	217.614	217.858A	217.815	217.780	217.840	217.202	---	12
13	217.420	217.407	217.538	217.529	217.610	217.736	217.772	217.787	217.822	217.834	217.125	---	13
14	217.437	217.438	217.523	217.518	217.651	217.725	217.874	217.800	217.714	217.820	217.563	217.441A	14
15	217.377	217.380	217.504	217.505	217.691	218.043	217.768	217.884	217.841	217.605	217.490	217.472	15
16	217.414	217.424	217.481	217.505	217.573	217.810	217.852	217.885	217.859	217.845	217.195	217.402	16
17	217.418	217.432	217.526	217.569	217.590	217.681	217.828	217.886	217.875	217.830	216.766	217.402	17
18	217.382	217.445	217.529	217.573	217.595	217.671	217.807	217.845	217.273	217.657	217.904	217.400	18
19	217.382	217.461	217.537	217.585	217.783	217.612	217.878	218.023	217.840	217.486	217.355	217.388	18
20	217.380	217.466	217.527	217.578	217.688	217.743	217.820	218.027	218.070	217.297	217.520	217.383	20
21	217.377	217.382	217.527	217.507	217.578	217.721	217.901	217.780	218.139	217.272	217.780	217.418	21
22	217.398	217.418	217.515	217.540	217.700	217.685	217.898	217.840	217.903	217.468	217.563	217.430	22
23	217.419	217.439	217.520	217.583	217.695	217.783	218.139	217.736	217.905	217.334	217.403	217.414	23
24	217.436	217.432	217.480	217.583	217.708	217.807	217.931	217.786	217.903	217.518	217.940	217.411	24
25	217.394	217.377	217.500	217.587	217.690	217.818	217.868	217.780	217.869	217.587	218.083	217.390	25
26	217.372	217.410	217.506	217.571	217.670	217.884	217.871	217.812	217.600	217.547	217.948	217.397	26
27	217.395	217.406	217.530	217.577	217.696	217.859	217.843	217.786	217.407	217.488	217.434	217.377	27
28	217.387	217.472	217.534	217.583	217.698	217.832	217.874	217.780	217.728	217.813	217.483	217.410	28
29	217.433		217.504	217.580	217.692	217.788	217.885	217.815	217.814	217.515	217.538	217.382	29
30	217.411		217.505	217.590	217.618	217.687	217.901	217.776	217.685	217.340	217.485	217.398	30
31	217.398		217.550		217.773		217.892	217.872		217.298		217.437	31
MEAN	217.399	217.421	217.505	217.570	217.693	217.790	---	217.817	217.705	217.587	217.404	---	MEAN
MAX	217.447	217.466	217.550	217.590	217.802	218.043	---	218.083	218.139	217.883	218.083	---	MAX
MIN	217.382	217.377	217.432	217.536	217.480	217.508	---	217.615	217.078	217.234	216.717	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

A - MANUAL GAUGE

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 42 30 N
LONG 96 24 10 W

MAXIMUM DAILY, 218.139 ON JUL 23
MINIMUM DAILY, 216.717 ON NOV 6
MAXIMUM INSTANTANEOUS,
218.333 AT 02:24 CST ON AUG 20

REGULATED SINCE 1975

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEGOSIS AT DAWSON BAY - STATION NO 05LD002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	252.660	252.684	252.759	252.889	253.132	253.263	253.286	253.154	253.078	253.006	253.102	1
2	---	252.682	252.680	252.766	252.883	253.161	253.271	253.292	253.216	253.088	253.108	253.098	2
3	---	252.678	252.680	252.760	252.894	253.174	253.260A	253.303	252.864	253.120	253.299	253.094	3
4	---	252.675	252.681	252.767	252.914	253.093	253.263E	253.274	253.113	253.142	253.260	253.089	4
5	---	252.676	252.676	252.773	252.907	253.077	253.265E	253.222	253.213	252.899	253.096	253.094	5
6	---	252.667	252.676	252.771	252.913	253.089	253.266E	253.326	253.116	252.895	253.056	253.094	6
7	---	252.670	252.695	252.775	252.926	253.181	253.270A	253.113	253.225	253.093	253.064	253.080	7
8	---	252.679	252.706	252.783	252.939	253.139	253.240	253.210	253.106	253.092	252.971	253.087	8
9	---	252.684	252.720	252.766	252.932	253.192	253.272	253.273	253.176	253.204	253.122	253.084	9
10	---	252.681	252.740	252.760	252.904	253.209	253.183	253.178	253.003	253.072	253.211	253.094	10
11	---	252.682	252.731	252.784	252.918	253.202	253.065	253.258	253.089	252.899	253.185	253.100	11
12	---	252.692	252.721	252.762	252.910	253.185	253.275	253.301	253.116	253.061	253.204	253.112	12
13	---	252.676	252.716	252.788	252.916	253.057	253.203	253.007	253.122	253.138	253.083	253.112	13
14	---	252.687	252.726	252.786	252.962	253.123	253.306	253.273	253.167	253.089	253.043	253.085	14
15	---	252.688	252.730	252.788	252.984	253.041	253.214	253.107	253.184	253.113	253.092	253.092	15
16	---	252.687	252.731	252.783	252.991	253.204	253.306	253.278	253.240	252.930	253.284	253.088	16
17	---	252.679	252.723	252.791	252.985	253.222	253.258	253.211	253.332	252.892	253.201	253.081	17
18	---	252.672	252.723	252.793	252.995	253.200	253.268	253.236	252.882	253.093	253.104	253.068	18
19	---	252.674	252.728	252.797	252.978	253.250	253.287	252.904	252.746	253.156	253.056	253.095	19
20	252.700A	252.684	252.730	252.790	253.027	253.229	253.269	253.242	252.823	253.211	253.044	253.094	20
21	252.701	252.686	252.734	252.788	253.000	253.218	253.317	253.188	252.902	253.123	252.986	253.083	21
22	252.696	252.686	252.737	252.800	253.024	253.185	253.149	253.187	253.034	253.143	253.074	253.076	22
23	252.678	252.678	252.741	252.808	253.029	253.215	253.212	253.193	253.147	253.126	253.084	253.089	23
24	252.677	252.684	252.749	252.819	253.044	253.255	253.275	253.197	253.068	252.997	252.838	253.083	24
25	252.680	252.701	252.741	252.823	253.071	253.239	253.306	253.192	253.078	253.082	252.879	253.111	25
26	252.686	252.674	252.749	252.823	253.080	253.243	253.305	253.173	253.132	253.111	253.070	253.117	26
27	252.695	252.681	252.752	252.846	253.062	253.221	253.220	253.209	253.157	253.038	253.109	253.126	27
28	252.686	252.671	252.760	252.859	253.000	253.237	253.196	253.186	252.865	252.946	253.103	253.118	28
29	252.680		252.766	252.884	252.954	253.240	253.256	253.209	253.074	253.130	253.085	253.111	29
30	252.687		252.760	252.880	253.044	253.212	253.255	253.208	253.109	253.080	253.096	253.102	30
31	252.694		252.747		253.089		253.228	253.226		253.109		253.092	31
MEAN	---	252.680	252.724	252.793	252.977	253.184	253.246	253.210	253.081	253.074	253.089	253.096	MEAN
MAX	---	252.701	252.766	252.880	253.089	253.280	253.317	253.326	253.332	253.211	253.289	253.126	MAX
MIN	---	252.661	252.676	252.759	252.883	253.041	253.065	252.904	252.746	252.892	252.838	253.069	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 253.332 ON SEP 17
MINIMUM DAILY, 252.661 ON FEB 27
MAXIMUM INSTANTANEOUS,
253.430 AT 10:29 CST ON SEP 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 56 30 N
LONG 100 58 30 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE WINNIPEGOSIS AT WINNIPEGOSIS - STATION NO 05LH001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	252.884	252.929	252.944	253.024	253.121	253.298	253.412	253.423	253.306	253.332	253.433	253.291	1
2	252.882	252.913	252.955	253.014	253.134	253.273	253.383	253.433	253.257	253.325	253.318	253.307A	2
3	252.886	252.920	252.952	253.028	253.130	253.422	253.511	253.439	253.382	253.348	252.902	253.304E	3
4	252.888	252.921	252.950	253.020	253.121	253.443	253.564	253.443	253.408	253.259	252.987	253.301E	4
5	252.887	252.911	252.972	253.010	253.140	253.384	253.305	253.523	253.297	253.402	253.235	253.298E	5
6	252.883	252.906	252.961	253.008	253.152	253.391	253.405	253.337	253.555	253.368	253.284	253.294A	6
7	252.887	252.930	252.971	253.007	253.140	253.313	253.435	253.589	253.273	253.263	253.302	253.302	7
8	252.884	252.916	252.973	253.001	253.131	253.385	253.477	253.498	253.405	253.269	253.437	252.294	8
9	252.888	252.912	252.985	253.006	253.162	253.307	253.389	253.352	253.381	253.112	253.216	253.296	9
10	252.910	252.922	252.963	253.017	253.201	253.295	253.542	253.558	253.471	253.350	253.182	253.303	10
11	252.895	252.925	252.971	253.018	253.248	253.324	253.620	253.408	253.474	253.576	253.178	253.300	11
12	252.902	252.913	252.985	253.015	253.264	253.330	253.363	253.318	253.408	253.376	253.077	253.303	12
13	252.903	252.930	252.998	253.012	253.270	253.507	253.478	253.539	253.404	253.225	252.216	253.304	13
14	252.907	252.924	252.985	253.006	253.238	253.481	253.370	253.348	253.347	253.347	253.360	253.327	14
15	252.882	252.916	252.985	253.020	253.198	253.496	253.515	253.488	253.384	253.231	253.253	253.314	15
16	252.914	252.935	252.985	253.011	253.180	253.363	253.510	253.337	253.180	253.402	252.985	253.303	16
17	252.903	252.933	253.002	253.008	253.225	253.318	253.374	253.430	252.852	253.463	253.077	253.302	17
18	252.901	252.940	252.996	253.008	253.223	253.266	253.494A	253.392	253.375	253.288	253.227	253.304	18
19	252.918	252.938	252.994	253.008	253.304	253.300	253.429A	253.624A	253.592	253.180	253.311	253.303	19
20	252.915	252.924	252.996	253.020	253.198	253.348	253.529A	253.449A	253.710	253.062	253.463	253.305	20
21	252.899	252.926	252.993	253.028	253.331	253.340	253.289A	253.624A	253.683	253.231	253.823	253.308	21
22	252.912	252.932	252.990	253.045	253.298	253.407	253.249A	253.628A	253.420	253.233	253.402	253.308	22
23	252.927	252.940	252.993	253.095	253.318	253.417	253.758A	253.351	253.214	253.237	253.326	253.315	23
24	252.920	252.924	252.992	253.170	253.291	253.388	253.689A	253.378	253.327	253.344	253.600	253.297	24
25	252.912	252.914	253.010	253.182	253.260	253.423	253.349A	253.405	253.321	253.280	253.511	253.304	25
26	252.912	252.942	253.008	253.154	253.258	253.508	253.208A	253.418	253.298	253.245	253.350	253.310	26
27	252.908	252.955	253.001	253.110A	253.304	253.409	253.408A	253.365	253.251	253.358	253.305	253.300	27
28	252.923	252.947	253.002	253.117	253.492	253.290	253.606	253.414	253.577	253.428	253.314	253.308	28
29	252.927		253.00.	253.115	253.375	253.377	253.519	253.383	253.318	253.190	253.320	253.293	29
30	252.913		253.011	253.116	253.437	253.437	253.467	253.388	253.283	253.283	253.304	253.312	30
31	252.928		253.054		253.324		253.509	253.337		253.296		253.306	31
MEAN	297.886	252.927	252.987	253.047	253.244	253.385	253.462	253.433	253.279	253.301	253.262	253.304	MEAN
MAX	252.927	252.955	253.054	253.182	253.492	253.508	253.758	253.624	253.710	253.576	253.823	253.327	MAX
MIN	252.882	252.906	252.944	253.001	253.121	253.266	253.249	253.318	252.852	253.062	252.602	253.291	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 253.223
MAXIMUM DAILY, 253.758A ON JUL 23
MINIMUM DAILY, 252.852 ON JAN 3
MAXIMUM INSTANTANEOUS,
253.830 AT 04:45 CST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 38 45 N
LONG 99 55 07 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4 490	3 650	3 080	2 580	2 330	408	36 0	31 6	46 4	63 6	27 3	12 7 B	1
2	4 460	3 650	3 080	2 550	2 330	370	33 1	27 7	46 9	49 6	26 6	12 4 B	2
3	4 420	3 620	3 050	2 550	2 330	347	31 1	25 2	53 2	46 2	26.20	12 0 B	3
4	4 380	3 620	3 020	2 550	2 330	332	29 5	23 8	66 5	43 0	25 40	11 7 B	4
5	4 340	3 580	3 020	2 550	2 330	309	29 1	23 3	77 4	40 6	24 70	11 4 B	5
6	4 300	3 580	2 990	2 520	2 330	282	27 6	22 5	80 6	38 0	24 10	11 2 B	6
7	4 300	3 550	2 960	2 520	2 330	252	26 0	21 1	78 0	38 0	23 50	10 9 B	7
8	4 270	3 550	2 960	2 520	2 330	224	24 5	20 4	73 5	36 9	22 90	10 6 B	8
9	4 230	3 510	2 930	2 520	2 330	197	23 9	20 0	68 9	35 9	22 30	10 4 B	9
10	4 190	3 480	2 930	2 520	2 330	176	22 3	27 9	61 4	35.0	21.80	10 1 B	10
11	4 160	3 450	2 890	2 520	2 330	157	21 1	43 8	60 1	33 9	21.20	9 910	11
12	4 120	3 450	2 890	2 520	2 330	142	21 1	48 4	58 3	32 7	20 60	9 660	12
13	4 120	3 410	2 860	2 520	2 300	132	20 9	48 3	55 6	31 9	20 00	9 470	13
14	4 090	3 410	2 860	2 490	2 300	126	20 0	38 9	53 3	31 3	19 50	9 210	14
15	4 060	3 380	2 860	2 490	2 300	123	19 5	31 7	49 1	30 7	19 00	8 960	15
16	4 020	3 350	2 830	2 490	2 300	116	19 0	28 6	44 8	30 1	18 50	8 790	16
17	3 990	3 310	2 830	2 490	2 270	106	18 0	22 5	41 0	29 0	18 10	8 640	17
18	3 950	3 280	2 800	2 460	2 230	99 0	16 7	21 0	40 0	28 7	17 70	8 480	18
19	3 950	3 280	2 800	2 430	2 430	88 4	16 1	25 6	72 3	29 0	17 20	8 220	19
20	3 920	3 240	2 770	2 460	2 040	79 0	17 4	47 0	89 0	29 3	16 80	8 010	20
21	3 880	3 240	2 770	2 430	3 020	75 1	16 3	57 0	112	28 2	16 30	7 870	21
22	3 850	3 210	2 740	2 430	3 460	69 5	15 7	61 8	110	28 1	16 00	7 730	22
23	3 820	3 210	2 740	2 430	4 490	65 2	15 7	62 3	104	28 2	15 50	7 530	23
24	3 790	3 180	2 710	2 400	10 4 B	61 4	14 9	59 9	93 9	28 2	15 10	7 340	24
25	3 760	3 180	2 680	2 400	61.0 B	57 3	14 0	56 5	85 3	28.1	14.70	7.200	25
26	3 760	3 140	2 680	2 400	110 B	52 5	13 3	56 1	76 9	29 0	14 40	7 050	26
27	3 760	3 140	2 640	2 360	166 B	47 9	16 1	54 6	70 6	28 5	14 00	6 860	27
28	3 720	3 110	2 610	2 360	237 B	44 3	28 1	50 9	65 4	28 3	13 70	6 610	28
29	3 720		2 610	2 360	317 B	40 6	36 2	49 6	61 0	28 3	13 30	6 470	29
30	3 680		2 580	2 330	362 B	38 2	40 6	50 9	57 0	27 9	13 00	6 370	30
31	3 680		2 580		436		38 0	48 8		27 7		6 370	31
TOTAL	125 20	94 76	87 75	76 18	1 787 00	4 821 3	727 8	1 204 0	2 073 1	1 042 4	579 4	280 86	TOTAL
MEAN	4 04	3 38	2 83	2 47	66 7	164	23 5	38 8	69 1	33 6	19 3	9 06	MEAN
MAX	4 49	3 65	3 08	2 58	436	408	40 6	62 3	112	63 6	27 3	12 7	MAX
MIN	3 68	3 11	2 58	2 33	2 27	38 2	13 3	20 0	41 0	27 7	13 0	6 37	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 34.7
MAXIMUM DAILY, 436 ON MAY 31
MINIMUM DAILY, 2.270 ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 31 10 N
LONG 94 12 20 W
DRAINAGE AREA, 3 100 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	10 800	JUL	62 900
FEB	8 190	AUG	104 000
MAR	7 580	SEP	179 000
APR	6 610	OCT	90 100
MAY	152 000	NOV	50 100
JUN	388 000	DEC	24 300

TOTAL DISCHARGE, 1 000 000 dam³

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO 05PB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6 300	4 850	4 100	3 600	3 100	311 B	63 7	51 2	91 2	121	42 4	18 80	1
2	6 240	4 810	4 070	3 470	3 000	305	59 0	46 5	107	113	42 0	18 40	2
3	6 190	4 770	4 060	3 460	3 070	300	54 0	45 5	151	108	40 80	18 10	3
4	6 110	4 740	4 020	3 450	3 040	277	49 6	43 7	218	100	40 50	17 80	4
5	6 060	4 700	4 000	3 430	3 020	262	46 1	40 6	231	98 4	40 20	17 40	5
6	6 000	4 680	3 980	3 420	3 020	240	42 8	37 4	231	92 6	39 10	17 00	6
7	5 970	4 640	3 960	3 410	3 000	217	40 5	35 7	226	89 5	37 90	16 70	7
8	5 930	4 610	3 950	3 390	2 980	203	38 1	33 6	217	86 7	36 70	16 40	8
9	5 870	4 570	3 920	3 360	2 960	270	36 6	31 5	210	81 9	35 60	16 10	9
10	5 820	4 530	3 910	3 360	2 970	246	34 7	30 2	200	78 3	34 30	15 80	10
11	5 780	4 520	3 880	3 350	2 960	226	32 4	29 0	189	75 4	33 00	15 50	11
12	5 740	4 480	3 860	3 340	2 960	213	31 4	28 0	178	72 0	31 90	15 30	12
13	5 700	4 460	3 840	3 320	2 960	202	30 7	27 5	168	68 1	30 60	15 00	13
14	5 670	4 430	3 820	3 310	2 930	190	30 1	26 7	154	64 0	29 90	14 60	14
15	5 610	4 410	3 810	3 290	2 920	182	28 9	26 3	142	62 4	29 00	14 60	15
16	5 580	4 360	3 780	3 270	2 920	162	28 7	26 9	132	59 9	28 00	14 30	16
17	5 570	4 360	3 770	3 260	2 910	170	30 6	26 3	122	58 7	27 20	14 10	17
18	5 440	4 360	3 740	3 240	2 880	167	31 9	25 6	131	57 1	26 20	13 90	18
19	5 390	4 320	3 720	3 220	2 860	144	32 8	24 7	161	54 3	25 60	13 70	19
20	5 330	4 290	3 700	3 210	2 850	137	31 2	50 0	181	52 1	24 80	13 50	20
21	5 290	4 270	3 680	3 200	2 910	130	30 2	61 4	186	51 6	24 10	13 30	21
22	5 260	4 240	3 670	3 180	3 100	126	29 2	60 0	184	51 2	23 40	13 10	22
23	5 220	4 230	3 640	3 170	3 720	125	27 4	74 6	178	50 2	22 70	13 00	23
24	5 180	4 210	3 630	3 160	5 070	116	26 5	78 0	171	50 2	22 10	12 80	24
25	5 110	4 180	3 600	3 140	8 160	104	24 3	78 2	160	48 6	21 70	12 50	25
26	5 070	4 160	3 590	3 140	16 1 B	94 6	24 0	78 6	150	48 2	21 20	12 40	26
27	5 030	4 130	3 560	3 130	24 6 B	88 7	26 6	77 6	151	47 3	20 80	12 20	27
28	5 000	4 110	3 540	3 130	41 3 B	80 2	42 2	74 3	145	47 1	20 10	12 10	28
29	4 980		3 530	3 110	71 5 B	74 3	51 2	70 7	138	46 4	19 70	11 90	29
30	4 930		3 520	3 110	100 B	68 9	55 1	66 7	129	46 0	19 10	11 80	30
31	4 880		3 500		188 B		53 7	67 6		46 2		11 70	31
TOTAL	172 11	124 66	117 37	86 53	513 81	6 142 7	1 166 8	1 004 0	5 030 2	2 119 6	890 8	483 8	TOTAL
MEAN	5 55	4 44	3 70	3 20	16 6	205	37 6	48 5	168	68 4	29 7	16 0	MEAN
MAX	6 30	4 85	4 10	3 48	188	305	63 7	78 6	231	121	42 4	18 8	MAX
MIN	4 86	4 11	3 50	3 11	2 85	88 8	24 3	25 3	91 2	46 2	19 1	11 7	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 50.3
MAXIMUM DAILY, 305 ON JUN 2
MINIMUM DAILY, 2 850 ON MAY 25
MAXIMUM INSTANTANEOUS,
490 AT 21:25 CST ON JUN 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 20 10 N
LONG 93 20 50 W
DRAINAGE AREA, 6 250 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	15 500	JUL	101 000
FEB	10 800	AUG	130 000
MAR	10 100	SEP	435 000
APR	8 610	OCT	183 000
MAY	44 000	NOV	77 000
JUN	531 000	DEC	30 300

TOTAL DISCHARGE, 1 900 000 dam³

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO 05PC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	18 00	14 40	12 00	11 00	11 30	---	80 9	70 2	93 5	98 4	83 1	33 20	1
2	17 90	14 30	12 00	11 00	11 30	---	78 0	67 5	93 0	96 7	81 8	32 00	2
3	17 70	14 30	12 70	11 00	11 30	---	75 9	65 0	95 6	92 7	80 4	32 20	3
4	17 60	14 20	12 70	11 70	11 30	---	73 0	61 6	90 7	87 8	58 3	31 00	4
5	17 40	14 10	12 70	11 70	11 30	---	70 2	59 3	86 3	85 8	54 00	31 30	5
6	17 30	14 00	12 60	11 70	11 30	---	68 2	56 4	71 3	83 6	53 00	30 70	6
7	17 10	14 00	12 60	11 70	11 20	---	66 7	54 5	73 8	83 1	51 00	30 20	7
8	17 00	13 90	12 50	11 70	11 20	---	65 1	52 6	76 1	81 9	50 00	30 00	8
9	16 80	13 80	12 50	11 70	11 20	---	63 6	50 8	79 1	82 4	49 40	29 00	9
10	16 70	13 60	12 40	11 70	11 20	---	62 0	50 5	82 5	81 6	46 00	29 20	10
11	16 50	13 70	12 40	11 60	11 20	---	59 9	49 2	83 2	79 7	47 30	28 00	11
12	16 40	13 70	12 40	11 60	11 20	---	58 6	48 6	83 4	77 5	46 30	28 00	12
13	16 30	13 60	12 30	11 60	11 20	---	58 1	46 9	82 6	76 2	45 30	28 20	13
14	16 10	13 50	12 30	11 60	11 20	---	56 9	47 4	81 1	74 8	44 30	27 90	14
15	15 90	13 50	12 20	11 60	11 20	---	55 2	46 4	78 8	73 4	43 60	27 50	15
16	15 80	13 50	12 20	11 50	11 20	---	56 0	45 7	78 6	73 2	42 60	27 20	16
17	15 70	13 40	12 20	11 50	11 20	---	54 7	44 9	76 2	72 2	41 90	26 90	17
18	15 60	13 40	12 20	11 50	11 20	---	53 7	44 0	76 2	70 5	41 10	26 70	18
19	15 40	13 30	12 10	11 50	11 10	---	52 8	43 5	84 7	70 9	40 50	26 40	19
20	15 30	13 20	12 10	11 50	11 10	---	52 5	44 0	98 6	70 4	39 60	26 10	20
21	15 30	13 20	12 10	11 50	11 10	---	51 7	45 2	112	70 7	39 00	25 60	21
22	15 20	13 20	12 10	11 50	11 10	---	51 3	47 0	116	69 9	38 30	25 50	22
23	15 10	13 10	12 10	11 50	11 10	---	50 3	48 1	120	67 6	37 60	25 20	23
24	15 00	13 10	12 00	11 40	11 20	---	50 0	50 4	118	67 4	37 00	24 90	24
25	14 90	13 00	12 00	11 40	11 50	---	48 5	52 2	116	67 0	36 50	24 70	25
26	14 80	13 00	11 90	11 40	11 70	---	47 7	54 0	113	66 7	35 90	24 60	26
27	14 80	12 90	11 90	11 40	12 20	---	48 1	54 7	113	66 3	35 40	24 40	27
28	14 70	12 80	11 80	11 40	13 20	---	56 6	54 6	107	65 9	34 80	24 20	28
29	14 60		11 90	11 30	14 90	82 00	65 6	54 5	105	65 6	34 20	24 00	29
30	14 50		11 80	11 30	17 70	83 0	69 5	53 9	100	64 9	33 70	23 80	30
31	14 40		11 60		20 70		70 3	53 8		63 7		23 60	31
TOTAL	495 6	379 9	380 2	346 9	370 6	---	1 873 7	1 621 8	2 615 5	2 348 7	1 345 8	895 9	TOTAL
MEAN	16 0	13 6	12 3	11 6	12 0	---	60 4	52 3	87 2	75 8	44 9	27 6	MEAN
MAX	18 0	14 4	12 6	11 6	20 7	---	80 9	70 2	120	98 4	83 1	33 2	MAX
MIN	14 4	12 6	11 6	11 3	11 1	---	47 7	43 5	93 0	63 7	33 7	23 6	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 11 10 ON MAY 19

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 54 00 N
LONG 95 48 00 W
DRAINAGE AREA, 5 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	42 600	JUL	162 000
FEB	32 600	AUG	140 000
MAR	32 600	SEP	226 000
APR	30 000	OCT	203 000
MAY	32 000	NOV	116 000
JUN	---	DEC	73 000

LITTLE SASKATCHEWAN RIVER ABOVE RAPID CITY DAM - STATION NO 05MF001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	478 774	---	478 841	---	---	---	---	1
2	---	478 578	478 584	---	478 174	---	478 584	---	---	---	478 542	---	2
3	478 586	---	---	---	---	---	---	478 841	478 541	478 501	---	478 612	3
4	---	---	---	---	---	478 724	478 584	---	---	---	---	---	4
5	---	478 578	478 584	---	478 124	---	---	---	478 521	478 547	478 582	478 602	5
6	---	---	---	---	---	478 674	---	478 821	---	---	---	---	6
7	478 586	478 584	478 584	---	478 024	---	478 584	---	478 521	---	478 582	---	7
8	---	---	---	---	---	---	---	478 801	---	478 502	---	478 602	8
9	---	478 600	---	---	478 674	478 674	478 674	---	---	---	---	---	9
10	478 536	478 604	478 602	---	---	---	---	478 581	478 511	478 502	478 582	478 612	10
11	478 600	---	---	---	478 004	478 644	478 584	---	---	---	---	---	11
12	---	478 604	478 604	---	478 584	---	---	478 571	478 511	---	478 602	478 602	12
13	478 516	---	---	---	---	478 624	---	478 571	---	478 512	---	---	13
14	---	478 584	478 604	---	478 724	---	478 581	---	478 511	---	478 602	---	14
15	478 516	---	---	---	---	478 604	---	478 571	478 511	478 522	---	478 582	15
16	---	478 584	---	---	478 024	---	478 581	---	---	---	478 617	---	16
17	478 536	---	478 584	---	---	---	---	---	478 511	478 532	---	478 612	17
18	---	---	---	---	---	478 644	478 581	478 581	---	---	---	---	18
19	---	478 604	478 604	---	478 644	---	---	---	478 511	478 532	478 582	478 586	19
20	478 556	---	---	---	---	478 644	478 601	478 581	---	---	---	---	20
21	---	478 604	---	---	478 574	---	---	---	478 501	---	478 582	---	21
22	478 576	---	---	---	---	---	478 641	478 541	---	478 542	---	478 604	22
23	---	---	---	---	478 574	478 624	---	---	---	---	---	---	23
24	478 586	478 584	478 644	---	---	---	---	---	478 511	---	478 582	478 594	24
25	---	---	---	---	---	478 604	478 571	478 541	---	---	---	---	25
26	---	478 584	---	---	478 574	---	---	---	478 511	---	478 602	478 584	26
27	478 586	---	---	478 548	---	478 604	---	478 541	---	478 532	---	---	27
28	---	478 584	478 584	---	478 644	---	478 571	---	---	---	478 602	---	28
29	478 576		---	---	---	478 584	---	478 541	478 501	478 542	---	478 574	29
30	---		---	478 224	478 774	---	478 641	---	---	---	478 612	---	30
31	478 576		---		---		---	478 541		478 542		478 574	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 07 16 N
LONG 100 02 24 W
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.3238	0.2648	0.3518	0.8318	20.3	10.1	4.05	2.68	0.191	0.072	0.382	0.1118	1
2	0.2438	0.2668	0.4108	0.6558	27.3	9.71	3.98	2.78	0.193	0.061	0.367	0.1378	2
3	0.2438	0.2468	0.4988	0.4198	25.7	9.47	3.98	2.67	0.242	0.074	0.361	0.1568	3
4	0.2578	0.2338	0.7038	0.2828	24.8	9.81	3.87	2.53	0.211	0.071	0.365	0.1628	4
5	0.2738	0.2078	0.9508	0.2268	24.4	9.23	3.80	2.36	0.177	0.074	0.389	0.1928	5
6	0.3148	0.1918	1.078	0.2228	23.6	7.82	3.69	2.21	0.190	0.066	0.335	0.2198	6
7	0.3218	0.1748	1.038	0.3368	22.3	7.61	3.59	2.02	0.164	0.226	0.327	0.1928	7
8	0.3278	0.1458	0.9548	1.138	20.2	7.52	3.46	1.78	0.128	0.267	0.325	0.1908	8
9	0.3488	0.1358	0.7728	3.398	18.1	7.28	3.37	1.66	0.257	0.224	0.304	0.2148	9
10	0.3628	0.1288	0.7158	4.278	15.8	7.06	3.50	1.57	0.194	0.236	0.311	0.2158	10
11	0.3188	0.1238	0.6748	4.328	14.1	8.71	3.45	1.41	0.078	0.380	0.292	0.1578	11
12	0.3358	0.1458	0.6638	4.658	12.8	8.51	3.43	1.25	0.053	0.316	0.314	0.1768	12
13	0.3428	0.1588	0.6628	3.508	11.8	8.48	3.74	1.13	0.058	0.287	0.291	0.1728	13
14	0.3008	0.1428	0.5908	2.708	10.8	8.14	4.00	1.02	0.062	0.298	0.270	0.2058	14
15	0.2958	0.3348	0.4978	1.738	10.0	9.99	4.18	0.962	0.072	0.389	0.250	0.2338	15
16	0.3068	0.3778	0.4218	1.598	9.41	9.82	4.29	0.919	0.054	0.402	0.229	0.1938	16
17	0.2878	0.2418	0.3818	1.148	9.37	9.87	4.15	0.897	0.044	0.394	0.219	0.1758	17
18	0.2908	0.2068	0.3268	0.7408	9.85	9.58	3.99	0.834	0.049	0.389	0.218	0.1878	18
19	0.2908	0.2258	0.2638	3.698	11.6	9.81	4.03	0.738	0.051	0.387	0.210	0.1888	19
20	0.2708	0.2468	0.2558	10.48	10.7	9.57	4.29	0.678	0.045	0.426	0.202	0.1738	20
21	0.3178	0.2648	0.3248	15.5	10.8	9.42	4.59	0.615	0.049	0.400	0.1358	0.1638	21
22	0.3518	0.2738	0.4408	23.8	11.4	9.43	4.79	0.585	0.033	0.390	0.1898	0.8638	22
23	0.3878	0.2888	0.7268	23.6	12.4	9.28	4.74	0.555	0.029	0.396	0.1788	0.5738	23
24	0.3278	0.2908	0.9568	24.7	13.0	9.15	4.61	0.517	0.025	0.385	0.1678	0.5788	24
25	0.3228	0.3028	1.148	30.3	13.4	8.96	4.17	0.462	0.024	0.368	0.1768	0.8888	25
26	0.3288	0.3388	1.308	39.6	13.4	8.78	3.79	0.386	0.030	0.349	0.1848	0.5778	26
27	0.3928	0.3665	1.348	40.4	13.1	8.64	3.44	0.340	0.031	0.352	0.1818	0.8628	27
28	0.4468	0.3508	1.218	39.4	12.7	8.43	3.17	0.300	0.039	0.356	0.1578	0.8718	28
29	0.3878		0.9718	36.8	12.0	8.24	2.96	0.268	0.044	0.325	0.1288	0.8698	29
30	0.3188		0.7778	32.8	11.4	8.71	2.85	0.243	0.048	0.336	0.1088	0.8838	30
31	0.2948		0.7878		10.7		3.00	0.225		0.362		0.8668	31
TOTAL	9.911	6.719	22.150	352.924	476.93	192.26	118.14	36.762	2.829	9.036	7.564	4.555	TOTAL
MEAN	0.320	0.240	0.715	11.8	15.4	6.41	3.84	1.19	0.094	0.292	0.252	0.147	MEAN
MAX	0.446	0.377	1.34	40.4	29.3	10.1	4.79	2.88	0.257	0.426	0.389	0.233	MAX
MIN	0.243	0.123	0.255	0.222	9.37	4.21	2.96	0.225	0.024	0.056	0.108	0.062	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.49
MAXIMUM DAILY, 40.4 ON APR 27
MINIMUM DAILY, 0.024 ON SEP 25
MAXIMUM INSTANTANEOUS,
61.1 AT 22:34 CST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 21 26 N
LONG 99 54 00 W
DRAINAGE AREA, 2 520 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	855	JUL	10 300
FEB	581	AUG	3 100
MAR	1 910	SEP	244
APR	30 500	OCT	781
MAY	41 200	NOV	654
JUN	16 600	DEC	394

TOTAL DISCHARGE, 107 000 dam³

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.088	1.038	1.058	1.05	40.7	12.1	5.11	3.86	1.21	1.19	0.928	0.919	1
2	1.088	1.038	1.028	1.06	36.2	11.9	5.16	3.67	1.19	1.18	0.926	0.929	2
3	1.088	1.038	1.048	1.06	35.1	12.0	4.85	3.51	1.20	1.17	0.954	0.928	3
4	1.088	1.048	1.058	1.06	31.1	11.6	4.64	3.35	1.19	1.16	0.941	0.924	4
5	1.088	1.048	1.088	1.06	28.4	10.8	4.40	3.29	1.22	1.15	0.943	0.920	5
6	1.088	1.048	1.048	1.08	26.1	10.1	4.31	2.70	1.25	1.16	0.939	0.9148	6
7	1.078	1.048	1.038	1.08	24.3	9.60	4.31	2.82	1.26	1.13	0.941	0.8988	7
8	1.088	1.088	1.038	1.11	23.1	9.46	4.26	2.37	1.29	1.12	0.936	0.8968	8
9	1.058	1.058	1.018	1.12	22.4	9.04	4.22	2.19	1.29	1.11	0.930	0.8958	9
10	1.058	1.048	1.028	1.12	20.4	8.99	4.27	2.19	1.31	1.10	0.927	0.8978	10
11	1.068	1.058	1.038	1.10	19.3	9.13	4.22	1.86	1.27	1.10	0.924	0.8968	11
12	1.058	1.038	1.028	1.10	18.4	9.33	4.13	1.86	1.23	1.08	0.921	0.8928	12
13	1.078	1.048	1.028	1.14	18.4	9.85	3.99	1.86	1.21	1.09	0.923	0.8918	13
14	1.088	1.058	1.028	2.14	18.4	9.86	3.91	1.86	1.17	1.10	0.926	0.8898	14
15	1.078	1.068	1.028	3.29	12.4	9.32	3.83	1.47	1.16	1.10	0.927	0.8818	15
16	1.078	1.068	1.028	4.32	11.9	8.89	3.74	1.30	1.13	1.10	0.927	0.8878	16
17	1.088	1.068	1.028	4.84	11.6	8.35	3.92	1.23	1.12	1.10	0.927	0.8818	17
18	1.088	1.058	1.028	4.82	10.1	7.49	4.18	1.18	1.11	1.10	0.923	0.8838	18
19	1.058	1.058	1.048	5.17	9.10	7.04	4.24	1.13	1.11	1.10	0.922	0.8868	19
20	1.048	1.058	1.058	11.6	9.44	7.05	4.41	1.08	1.13	1.11	0.931	0.8718	20
21	1.038	1.068	1.068	27.4	10.6	8.86	4.38	1.05	1.15	1.10	0.934	0.8718	21
22	1.048	1.068	1.078	38.8	10.8	7.00	4.38	1.02	1.15	1.10	0.936	0.8718	22
23	1.028	1.068	1.068	46.6	11.1	8.71	4.56	1.16	1.18	1.11	0.936	0.8728	23
24	1.028	1.068	1.068	47.8	11.6	8.85	4.78	1.32	1.18	1.10	0.933	0.8668	24
25	1.028	1.068	1.068	44.3	12.6	8.84	4.87	1.31	1.18	1.02	0.931	0.8718	25
26	1.018	1.048	1.078	40.8	13.1	8.87	4.86	1.32	1.14	0.933	0.929	0.8788	26
27	1.018	1.048	1.078	37.6	13.6	9.19	4.90	1.33	1.10	0.936	0.925	0.8768	27
28	1.028	1.058	1.078	38.7	13.8	9.01	4.71	1.34	1.08	0.929	0.922	0.8738	28
29	1.018		1.058	41.1	13.1	8.86	4.42	1.30	1.08	0.936	0.922	0.8748	29
30	1.028		1.048	41.9	12.8	8.26	4.32	1.18	1.18	0.933	0.921	0.8748	30
31	1.038		1.08		12.6		4.20	1.20		0.927		0.8718	31
TOTAL	32.54	28.38	32.34	453.74	556.04	250.84	136.93	67.37	35.61	33.438	27.906	27.492	TOTAL
MEAN	1.05	1.05	1.04	15.1	18.0	8.36	4.42	1.85	1.18	1.08	0.930	0.887	MEAN
MAX	1.09	1.08	1.08	47.8	40.7	12.1	5.16	3.86	1.31	1.19	0.954	0.929	MAX
MIN	1.01	1.03	1.01	1.05	9.10	4.86	3.74	1.02	1.08	0.923	0.921	0.861	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.59
MAXIMUM DAILY, 47.8 ON APR 24
MINIMUM DAILY, 0.8618 ON DEC 17
MAXIMUM INSTANTANEOUS,
48.8 AT 04:25 CST ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 26 N
LONG 100 12 56 W
DRAINAGE AREA, 3 910 km²

B - ICE CONDITIONS

REGULATED SINCE 1980

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 810	JUL	11 800
FEB	2 540	AUG	4 960
MAR	2 790	SEP	3 070
APR	39 200	OCT	2 888
MAY	46 388	NOV	2 410
JUN	21 700	DEC	2 360

TOTAL DISCHARGE, 145 000 dam³

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO 05MH006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3 23 B	0 072	0 043	0 006	0	0	0	---	---	1
2	---	---	0 B	4 31 B	0 067	0 042	0 004	0	0	0	---	---	2
3	---	---	0 B	5 72 B	0 079	0 043	0 002	0	0	0	---	---	3
4	---	---	0 B	5 18 B	0 049	0 040	0 001	0	0	0	---	---	4
5	---	---	0 B	5 55 B	0 052	0 033	0 001	0	0	0	---	---	5
6	---	---	0 B	5 91 B	0 053	0 030	0	0	0	0	---	---	6
7	---	---	0 B	13 5 B	0 037	0 031	0	0	0	0	---	---	7
8	---	---	0 B	14 2	0 040	0 032	0	0	0	0	---	---	8
9	---	---	0 B	13 7	0 030	0 030	0	0	0	0	---	---	9
10	---	---	0 B	8 71	0 026	0 025	0	0	0	0	---	---	10
11	---	---	0 B	6 17	0 034	0 025	0	0	0	0	---	---	11
12	---	---	0 0018	2 53	0 040	0 024	0	0	0	0	---	---	12
13	---	---	0 0028	1 86	0 041	0 021	0	0	0	0	---	---	13
14	---	---	0 B	1 30	0 033	0 019	0	0	0	0	---	---	14
15	---	---	0 0018	1 29	0 027	0 017	0	0	0	0	---	---	15
16	---	---	0 0018	0 921	0 025	0 015	0	0	0	0	---	---	16
17	---	---	0 0028	0 802	0 033	0 016	0	0	0	0	---	---	17
18	---	---	0 0038	0 640	0 043	0 013	0	0	0	0	---	---	18
19	---	---	0 0048	0 569	0 072	0 010	0	0	0	0	---	---	19
20	---	---	0 0058	0 472	0 082	0 011	0	0	0	0	---	---	20
21	---	---	0 0098	0 442	0 063	0 012	0	0	0	0	---	---	21
22	---	---	0 0048	0 437	0 068	0 014	0	0	0	0	---	---	22
23	---	---	0 B	0 428	0 067	0 015	0	0	0	0	---	---	23
24	---	---	0 B	0 368	0 057	0 015	0	0	0	0	---	---	24
25	---	---	0 0058	0 285	0 056	0 018	0	0	0	0	---	---	25
26	---	---	0 0028	0 241	0 054	0 016	0	0	0	0	---	---	26
27	---	---	0 0088	0 209	0 059	0 016	0	0	0	0	---	---	27
28	---	---	0 0188	0 178	0 052	0 014	0	0	0	0	---	---	28
29	---		0 0298	0 161	0 050	0 012	0	0	0	0	---	---	29
30	---		0 0618	0 133	0 048	0 010	0	0	0	0	---	---	30
31	---		1 35 B		0 047		0	0		0	---	---	31
TOTAL	---	---	1 506	108 207	1 537	0 667	5 014	0	0	0	---	---	TOTAL
MEAN	---	---	0 049	3 61	0 050	0 022	E	0	E	E	---	---	MEAN
MAX	---	---	1 35	14 2	0 079	0 043	E 0 006	E	E	E	---	---	MAX
MIN	---	---	0	0 133	0 025	0 010	0	0	0	E	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0 457
MAXIMUM DAILY, 14 2 ON APR 8
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
15 5 AT 18 21 CST ON APR 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 43 56 N
LONG 99 50 52 W
DRAINAGE AREA, 453 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 21
FEB	---	AUG	0
MAR	130	SEP	0
APR	9 350	OCT	0
MAY	133	NOV	---
JUN	57 8	DEC	---

TOTAL DISCHARGE, 9 670 dam³

LITTLE WOODY RIVER NEAR BARROWS - STATION NO 05LC005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 0848	0 1078	1 21	1 83	0 488	0 388	0 074	0 209	---	---	1
2	---	---	0 0848	0 1078	1 72	1 66	0 670	0 350	0 067	0 198	---	---	2
3	---	---	0 0848	0 1078	1 82	10 3	3 10	0 312	0 058	0 189	---	---	3
4	---	---	0 0848	0 1078	1 32	5 98	2 87	0 278	0 058	0 189	---	---	4
5	---	---	0 0858	0 1138	1 36	3 53	2 01	0 242	0 088	0 204	---	---	5
6	---	---	0 0868	0 1188	1 43	2 50	1 39	0 204	0 538	0 197	---	---	6
7	---	---	0 0878	0 1248	1 38	2 03	0 906	0 176	0 553	0 181	---	---	7
8	---	---	0 0888	0 1278	1 75	2 19	0 720	0 145	0 411	0 186	---	---	8
9	---	---	0 0898	0 1298	2 86	1 79	0 688	0 123	0 404	0 178	---	---	9
10	---	---	0 0908	0 1298	5 16	1 44	0 590	0 131	0 683	0 172	---	---	10
11	---	---	0 0928	0 1318	3 40	1 22	1 33	0 116	0 772	0 208	---	---	11
12	---	---	0 0938	0 1318	2 80	1 41	1 19	0 096	0 614	0 197	---	---	12
13	---	---	0 0948	0 1328	2 06A	3 39	0 832	0 115	0 487	0 190	---	---	13
14	---	---	0 0958	0 1328	1 87E	2 59	0 650	0 100	0 398	0 197	---	---	14
15	---	---	0 0968	0 1348	1 78E	2 78	0 718	0 088	0 332	0 202	---	---	15
16	---	---	0 0978	0 1368	2 72E	2 11	1 25	0 088	0 283	0 217	---	---	16
17	---	---	0 0988	0 1408	3 87E	1 47	1 13	0 091	0 255	0 204	---	---	17
18	---	---	0 0988	0 1548	5 18A	1 10	0 783	0 098	0 284	0 199	---	---	18
19	---	---	0 0988	0 2238	5 06	1 13	0 646	0 223	0 316	0 191	---	---	19
20	---	---	0 0988	0 3708	4 28	0 961	0 577	0 179	0 430	0 174	---	---	20
21	---	---	0 0988	0 5628	5 24	0 810	0 542	0 203	0 515	0 180	---	---	21
22	---	---	0 0988	0 815	4 62	0 753	0 521	0 156	0 546	0 189	---	---	22
23	---	---	0 0988	1 24	3 59	0 783	0 495	0 122	0 487	0 184	---	---	23
24	---	---	0 0988	2 18	2 78	0 714	0 464	0 104	0 394	0 177	---	---	24
25	---	---	0 0988	2 67	2 44	0 665	0 440	0 147	0 342	0 163	---	---	25
26	---	---	0 0988	2 40	2 59	0 597	0 647	0 146	0 289	0 161	---	---	26
27	---	---	0 0938	1 51	3 22	0 581	0 820	0 133	0 255	0 156	---	---	27
28	---	---	0 0988	1 18	2 81	0 506	0 606	0 120	0 242	0 152	---	---	28
29	---		0 1008	1 14	2 28	0 457	0 568	0 097	0 229	0 139	---	---	29
30	---		0 1048	1 05	1 80	0 437	0 495	0 092	0 216	0 134	---	---	30
31	---		0 1058		1 76		0 431	0 085		0 131	---	---	31
TOTAL	---	---	2 913	17 598	86 26	57 664	27 647	4 944	10 699	5 876	---	---	TOTAL
MEAN	---	---	0 094	0 587	2 78	1 93	0 892	0 159	0 357	0 183	---	---	MEAN
MAX	---	---	0 105	2 67	5 24	10 3	2 87	0 388	0 772	0 217	---	---	MAX
MIN	---	---	0 084	0 107	1 21	0 437	0 431	0 085	0 056	0 131	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0 573
MAXIMUM DAILY, 10 3 ON JUN 3
MINIMUM DAILY, 0 056 ON SEP 3
MAXIMUM INSTANTANEOUS,
13 3 AT 11 04 CST ON JUN 3

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 50 00 N
LONG 101 24 00 W
DRAINAGE AREA, 69 7 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 390
FEB	---	AUG	427
MAR	252	SEP	924
APR	1 520	OCT	490
MAY	7 450	NOV	---
JUN	5 000	DEC	---

TOTAL DISCHARGE, 18 500 dam³

LONG LAKE NEAR LITTLE GRAND RAPIDS - STATION NO. 05RD010

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	28.750	28.733	28.651	28.583	28.786	29.005	29.685	29.426	29.314	28.982	28.741	28.598	1
2	28.750	28.730	28.649	28.581	28.801	29.004	29.684	29.434	29.305	28.982	28.733	28.596	2
3	28.750	28.725	28.646	28.578	28.812	29.006	29.678	29.440	29.285	28.972	28.728	28.593	3
4	28.750	28.721	28.642	28.576	28.828	29.018	29.663	29.447	29.278	28.961	28.715	28.586	4
5	28.751	28.716	28.637	28.573	28.838	29.021	29.652	29.450	29.265	28.952	28.708	28.583	5
6	28.750	28.717	28.640	28.572	28.842	29.025	29.635	29.455	29.260	28.945	28.701	28.578	6
7	28.751	28.715	28.645	28.572	28.845	29.026	29.616	29.454	29.252	28.934	28.697	28.576	7
8	28.755	28.713	28.640	28.575	28.848	29.026	29.599	29.455	29.238	28.921	28.693	28.571	8
9	28.758	28.712	28.639	28.584	28.848	29.029	29.580	29.455	29.226	28.910	28.693	28.567	9
10	28.760	28.711	28.638	28.598	28.845	29.032	29.567	29.462	29.217	28.901	28.685	28.561	10
11	28.759	28.707	28.632	28.612	28.845	29.034	29.554	29.462	29.210	28.888	28.678	28.560	11
12	28.758	28.705	28.630	28.614	28.860	29.036	29.551	29.465	29.195	28.899	28.670	28.560	12
13	28.756	28.703	28.635	28.614	28.900	29.045	29.534	29.462	29.186	28.891	28.663	28.558	13
14	28.752	28.701	28.636	28.609	28.935	29.059	29.523	29.465	29.174	28.882	28.658	28.553	14
15	28.751	28.698	28.633	28.604	28.955	29.081	29.509	29.459	29.167	28.875	28.650	28.551	15
16	28.750	28.693	28.630	28.599	28.966	29.098	29.490	29.460	29.148	28.862	28.645	28.547	16
17	28.750	28.688	28.624	28.592	28.973	29.113	29.478	29.463	29.135	28.852	28.637	28.546	17
18	28.750	28.684	28.622	28.591	28.978	29.125	29.464	29.458	29.129	28.848	28.633	28.544	18
19	28.748	28.681	28.618	28.591	28.983	29.134	29.451	29.439	29.131	28.838	28.630	28.542	19
20	28.748	28.678	28.614	28.606	28.987	29.205	29.442	29.438	29.125	28.828	28.627	28.540	20
21	28.748	28.675	28.611	28.634	28.988	29.300	29.433	29.427	29.109	28.817	28.622	28.538	21
22	28.748	28.673	28.608	28.657	28.994	29.407	29.421	29.414	29.095	28.810	28.622	28.538	22
23	28.747	28.667	28.601	28.674	28.998	29.531	29.415	29.404	29.082	28.801	28.622	28.535	23
24	28.748	28.665	28.598	28.692	28.998	29.584	29.409	29.394	29.067	28.797	28.620	28.535	24
25	28.745	28.661	28.597	28.715	29.000	29.627	29.402	29.385	29.055	28.795	28.621	28.536	25
26	28.743	28.656	28.600	28.736	29.000	29.683	29.393	29.375	29.044	28.787	28.620	28.542	26
27	28.743	28.652	28.599	28.748	28.999	29.680	29.393	29.367	29.033	28.779	28.617	28.543	27
28	28.740	28.654	28.596	28.759	28.997	29.685	29.391	29.355	29.017	28.773	28.610	28.544	28
29	28.740		28.593	28.766	29.002	29.680	29.384	29.349	29.011	28.767	28.605	28.545	29
30	28.738		28.591	28.774	29.004	29.676	29.402	29.337	29.001	28.761	28.601	28.545	30
31	28.736		28.587		29.004		29.417	29.328		28.751		28.545	31
MEAN	28.748	28.694	28.622	28.633	28.926	29.232	29.510	29.425	29.159	28.864	28.658	28.557	MEAN
MAX	28.760	28.733	28.651	28.774	29.004	29.685	29.685	29.465	29.314	28.982	28.741	28.598	MAX
MIN	28.736	28.654	28.587	28.572	28.786	29.004	29.391	29.328	29.001	28.751	28.601	28.535	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 28.921
MAXIMUM DAILY, 29.685 ON JUN 26
MINIMUM DAILY, 28.535 ON DEC 23
MAXIMUM INSTANTANEOUS,
29.688 AT 16:12 CST ON JUN 26

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 11 30 N
LONG 96 05 20 W

NATURAL FLOW

LONG RIVER NEAR HOLMFIELD - STATION NO. 05QA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.8	4.608	1.08	0.350	0.045	0.001	0.002	0.003	---	---	1
2	---	---	0.8	5.298	0.973	0.302	0.048	0.001	0.001	0.003	---	---	2
3	---	---	0.8	5.228	0.902	0.288	0.061	0.001	0.001	0.003	---	---	3
4	---	---	0.0038	5.188	0.778	0.303	0.045	0	0.001	0.003	---	---	4
5	---	---	0.0748	5.148	0.689	0.232	0.051	0	0.001	0.003	---	---	5
6	---	---	0.0418	5.048	0.654	0.207	0.037	0	0.001	0.003	---	---	6
7	---	---	0.0248	4.778	0.598	0.138	0.025	0	0.001	0.003	---	---	7
8	---	---	0.0148	4.628	0.535	0.101	0.017	0	0.001	0.004	---	---	8
9	---	---	0.0108	4.528	0.469	0.101	0.018	0	0.002	0.004	---	---	9
10	---	---	0.0098	4.508	0.420	0.100	0.013	0	0.001	0.005	---	---	10
11	---	---	0.0468	4.468	0.359	0.080	0.009	0	0.001	0.005	---	---	11
12	---	---	0.5138	4.358	0.487	0.067	0.010	0	0.001	0.005	---	---	12
13	---	---	0.4408	4.27	0.749	0.075	0.009	0	0.001	0.005	---	---	13
14	---	---	0.3948	3.68	0.854	0.071	0.005	0	0.001	0.005	---	---	14
15	---	---	0.3508	2.92	0.856	0.076	0.005	0	0.005	0.005	---	---	15
16	---	---	0.7878	2.63	0.759	0.078	0.005	0	0.003	0.005	---	---	16
17	---	---	2.13 B	2.31	0.736	0.049	0.004	0	0.002	0.005	---	---	17
18	---	---	2.72 B	2.12	0.713	0.023	0.004	0	0.002	0.005	---	---	18
19	---	---	1.91 B	2.05	0.726	0.026	0.004	0	0.002	0.005	---	---	19
20	---	---	1.21 B	1.97	0.739	0.045	0.003	0	0.002	0.004	---	---	20
21	---	---	1.23 B	1.85	0.779	0.057	0.003	0	0.002	0.005	---	---	21
22	---	---	0.9488	1.84	0.753	0.158	0.003	0	0.002	0.110	---	---	22
23	---	---	0.3168	1.87	0.649	0.186	0.002	0.002	0.002	0.092	---	---	23
24	---	---	0.1488	1.88	0.738	0.081	0.002	0.001	0.002	0.103	---	---	24
25	---	---	0.0788	1.85	0.845	0.058	0.001	0.001	0.002	0.082	---	---	25
26	---	---	0.0588	1.71	0.583	0.035	0.001	0.001	0.002	0.038	---	---	26
27	---	---	0.1468	1.65	0.537	0.027	0.001	0.001	0.002	0.023	---	---	27
28	---	---	0.3168	1.58	0.502	0.027	0.001	0.001	0.002	0.015	---	---	28
29	---		1.62 B	1.39	0.469	0.024	0.001	0.002	0.002	0.013	---	---	29
30	---		2.80 B	1.25	0.445	0.031	0.004	0.001	0.006	0.011	---	---	30
31	---		2.68 B		0.418		0.002	0.001		0.018		---	31
TOTAL	---	---	20.211	96.39	20.796	3.416	0.438	0.014	0.054	0.570	---	---	TOTAL
MEAN	---	---	0.852	3.21	0.671	0.114	0.014	0	0.002	0.018	---	---	MEAN
MAX	---	---	2.73	5.29	1.08	0.350	0.061	0.002	0.006	0.110	---	---	MAX
MIN	---	---	0	1.25	0.359	0.023	0.001	0	0.001	0.003	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.579
MAXIMUM DAILY, 5.298 ON APR 2
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
5.698 AT 11:49 CST ON APR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 09 51 N
LONG 99 24 51 W
DRAINAGE AREA, 578 km²

B - ICE CONDITIONS

REGULATED SINCE 1958

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	37.9
FEB	---	AUG	1.31
MAR	1 750	SEP	4.67
APR	5 330	OCT	49.2
MAY	1 800	NOV	---
JUN	295	DEC	---

TOTAL DISCHARGE, 12 300 dam³

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.471B	0.485B	0.453B	0.401B	2.42	5.21	3.29	1.83	0.678	8.58	2.12	1.09 B	1
2	0.471B	0.481B	0.453B	0.404B	2.47	5.56	3.07	1.84	0.719	8.11	2.01	1.06 B	2
3	0.471B	0.471B	0.450B	0.410B	2.40	5.80	2.83	1.85	1.35	7.86	1.90	1.02 B	3
4	0.467B	0.467B	0.446B	0.418B	2.37	5.92	2.59	2.10	2.22	7.28	1.84	1.00 B	4
5	0.467B	0.464B	0.443B	0.419B	2.35	5.87	2.50	2.14	2.74	7.07	1.82	0.970B	5
6	0.467B	0.460B	0.436B	0.422B	2.29	5.63	2.36	2.13	2.85	6.77	1.81	0.933B	6
7	0.467B	0.460B	0.432B	0.422B	2.22	5.48	2.21	2.19	2.91	6.49	1.76	0.925B	7
8	0.464B	0.460B	0.432B	0.422B	2.17	5.30	2.10	2.21	4.21	6.22	1.70	0.905B	8
9	0.460B	0.460B	0.432B	0.422B	2.19	5.14	1.95	2.15	6.08	5.93	1.65	0.882B	9
10	0.457B	0.464B	0.432B	0.422B	2.44	5.02	1.79	2.00	6.69	5.69	1.54	0.868B	10
11	0.584	0.464B	0.432B	0.422B	2.50	4.89	1.72	1.87	6.87	5.44	1.46	0.841B	11
12	0.453B	0.464B	0.429B	0.422B	2.89	4.85	1.58	1.78	6.70	5.15	1.44	0.822B	12
13	0.460B	0.467B	0.429B	0.422B	3.24	5.46	1.45	1.63	6.41	4.97	1.42	0.804B	13
14	0.443B	0.471B	0.425B	0.425B	3.50	6.66	1.38	1.60	6.11	4.75	1.40	0.775B	14
15	0.436B	0.478B	0.425B	0.432B	3.66	7.80	1.42	1.42	5.80	4.49	1.37	0.741B	15
16	0.425B	0.481B	0.432B	0.436B	3.73	8.18	1.64	1.34	5.55	4.35	1.348	0.725B	16
17	0.419B	0.478B	0.422B	0.443B	3.88	8.05	2.18	1.35	5.67	4.07	1.368	0.702B	17
18	0.422B	0.471B	0.422B	0.453B	4.09	7.68	2.43	1.39	7.57	3.88	1.378	0.894B	18
19	0.425B	0.467B	0.418B	0.474B	4.43	7.12	2.47	1.31	10.9	3.75	1.348	0.651B	19
20	0.443B	0.467B	0.419B	0.516B	4.81	6.82	2.42	1.26	12.4	3.57	1.308	0.642B	20
21	0.460B	0.471B	0.416B	0.585B	5.44	6.08	2.30	1.21	12.5	3.38	1.268	0.624B	21
22	0.467B	0.474B	0.413B	0.759	5.80	5.78	2.31	1.15	12.1	3.29	1.258	0.626B	22
23	0.471B	0.474B	0.410B	0.858	6.07	5.50	2.23	1.08	11.8	3.19	1.238	0.626B	23
24	0.474B	0.478B	0.401B	1.06	6.11	5.28	2.19	1.05	11.6	3.01	1.218	0.619B	24
25	0.474B	0.478B	0.395B	1.32	5.88	4.80	2.09	1.00	11.2	2.99	1.218	0.624B	25
26	0.474B	0.474B	0.395B	1.78	5.80	4.58	2.09	0.948	10.9	2.73	1.208	0.626B	26
27	0.474B	0.471B	0.401B	2.15	5.75	4.26	2.09	0.909	10.4	2.62	1.188	0.619B	27
28	0.478B	0.464B	0.407B	2.35	5.58	3.98	2.08	0.840	9.97	2.50	1.178	0.615B	28
29	0.481B		0.410B	2.45	5.40	3.72	2.05	0.785	9.44	2.37	1.148	0.603B	29
30	0.488B		0.410B	2.45	5.17	3.51	2.02	0.771	8.93	2.29	1.118	0.613B	30
31	0.488B		0.407B		5.04		1.86	0.725		2.21		0.600B	31
TOTAL	14.391	13.164	13.118	24.387	132.16	169.70	66.89	45.928	213.267	144.71	43.91	23.860	TOTAL
MEAN	0.464	0.470	0.423	0.813	3.94	5.66	2.15	1.48	7.11	4.67	1.48	0.770	MEAN
MAX	0.584	0.485	0.453	2.45	6.11	8.18	3.29	2.21	12.5	8.58	2.12	1.09	MAX
MIN	0.419	0.460	0.395	0.401	2.17	3.51	1.38	0.725	0.678	2.21	1.11	0.600	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.45
MAXIMUM DAILY, 12.5 ON SEP 21
MINIMUM DAILY, 0.395B ON MAR 25
MAXIMUM INSTANTANEOUS,
12.6 AT 23:59 CST ON SEP 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 03 16 N
LONG 101 51 30 W
DRAINAGE AREA, 1 420 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 240	JUL	5 760
FEB	1 140	AUG	3 570
MAR	1 130	SEP	18 400
APR	2 110	OCT	12 500
MAY	10 600	NOV	3 730
JUN	14 700	DEC	2 060

TOTAL DISCHARGE, 77 400 dam³

MAIN DRAIN 4A NEAR DOMINION CITY - STATION NO. 05OD028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.48 B	0.164	0.023	0.001	0	0	0	---	---	1
2	---	---	0 B	3.96 B	0.155	0.018	0.002	0	0	0	---	---	2
3	---	---	0 B	5.07 B	0.148	0.018	0.003	0	0	0	---	---	3
4	---	---	0 B	5.25 B	0.142	0.014	0.003	0	0	0	---	---	4
5	---	---	0 B	5.77 B	0.140	0.012	0.003	0	0	0	---	---	5
6	---	---	0.012B	5.34 B	0.125	0.010	0.002	0	0	0	---	---	6
7	---	---	0.300B	5.77 B	0.116	0.009	0.002	0	0	0	---	---	7
8	---	---	0.888B	4.49 B	0.112	0.007	0.002	0	0	0	---	---	8
9	---	---	1.03 B	2.62 B	0.106	0.006	0.001	0	0	0	---	---	9
10	---	---	1.06 B	3.00 B	0.098	0.006	0.001	0	0	0	---	---	10
11	---	---	1.13 B	1.71 B	0.097	0.003	0.001	0	0	0	---	---	11
12	---	---	2.51 B	1.18 B	0.115	0.003	0	0	0	0	---	---	12
13	---	---	3.95 B	0.628B	0.129	0.003	0	0	0	0	---	---	13
14	---	---	4.93 B	0.616B	0.126	0.002	0	0	0	0	---	---	14
15	---	---	2.44 B	0.612B	0.129	0.003	0	0	0	0	---	---	15
16	---	---	1.08 B	0.604B	0.125	0.003	0	0	0	0	---	---	16
17	---	---	0.960B	0.604B	0.121	0.002	0	0	0	0	---	---	17
18	---	---	0.792B	0.544B	0.127	0.002	0	0	0	0	---	---	18
19	---	---	0.600B	0.583	0.119	0.001	0	0	0	0	---	---	19
20	---	---	0.588B	0.539	0.115	0.001	0	0	0	0	---	---	20
21	---	---	0.520B	0.458	0.113	0.001	0	0	0	0	---	---	21
22	---	---	0.508B	0.385	0.099	0.002	0	0	0	0	---	---	22
23	---	---	0.468B	0.333	0.090	0.002	0	0	0	0	---	---	23
24	---	---	0.476B	0.290	0.076	0.002	0	0	0	0	---	---	24
25	---	---	0.456B	0.270	0.067	0.002	0	0	0	0	---	---	25
26	---	---	0.576B	0.252	0.061	0.001	0	0	0	0	---	---	26
27	---	---	0.672B	0.226	0.057	0.001	0	0	0	0	---	---	27
28	---	---	0.640B	0.209	0.050	0.001	0	0	0	0	---	---	28
29	---		2.38 B	0.196	0.043	0.001	0	0	0	0	---	---	29
30	---		3.73 B	0.184	0.036	0.001	0	0	0	0	---	---	30
31	---		3.04 B		0.029		0	0		0		---	31
TOTAL	---	---	35.806	62.213	3.239	0.159	0.021	0	0	0	---	---	TOTAL
MEAN	---	---	1.16	2.07	0.104	0.005	0.001	0	0	0	---	---	MEAN
MAX	---	---	4.93	5.34	0.164	0.023	0.003	0	0	0	---	---	MAX
MIN	---	---	0	0.184	0.029	0.001	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.414
MAXIMUM DAILY, 5.34B ON APR 6
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
10.2B AT 17:03 CST ON APR 4

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 01 N
LONG 97 08 42 W
DRAINAGE AREA, 177 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1.81
FEB	---	AUG	0
MAR	3 080	SEP	0
APR	5 360	OCT	0
MAY	279	NOV	---
JUN	13.7	DEC	---

TOTAL DISCHARGE, 8 760 dam³

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.38 B	0.095	0	0	0	0	0	---	---	1
2	---	---	0 B	1.88 B	0.082	0	0	0	0	0	---	---	2
3	---	---	0 B	1.56 B	0.070	0	0	0	0	0	---	---	3
4	---	---	0.0058	1.77 B	0.058	0	0	0	0	0	---	---	4
5	---	---	0.0188	2.46 B	0.046	0	0	0	0	0	---	---	5
6	---	---	0.0418	2.83 B	0.030	0	0	0	0	0	---	---	6
7	---	---	0.1268	1.85 B	0.015	0	0	0	0	0	---	---	7
8	---	---	0.2808	0.8558	0.005	0	0	0	0	0	---	---	8
9	---	---	0.4328	0.630	0	0	0	0	0	0	---	---	9
10	---	---	0.4458	0.505	0	0	0	0	0	0	---	---	10
11	---	---	0.4758	0.405	0	0	0	0	0	0	---	---	11
12	---	---	1.05 B	0.331	0.010	0	0	0	0	0	---	---	12
13	---	---	2.07 B	0.3228	0.018	0	0	0	0	0	---	---	13
14	---	---	1.02 B	0.3048	0.038	0	0	0	0	0	---	---	14
15	---	---	0.4788	0.2608	0.043	0	0	0	0	0	---	---	15
16	---	---	0.1808	0.205	0.040	0	0	0	0	0	---	---	16
17	---	---	0.0808	0.195	0.035	0	0	0	0	0	---	---	17
18	---	---	0.0508	0.176	0.029	0	0	0	0	0	---	---	18
19	---	---	0.0308	0.170	0.020	0	0	0	0	0	---	---	19
20	---	---	0.0208	0.160	0.018	0	0	0	0	0	---	---	20
21	---	---	0.0178	0.155	0.005	0	0	0	0	0	---	---	21
22	---	---	0.0158	0.149	0	0	0	0	0	0	---	---	22
23	---	---	0.0138	0.139	0	0	0	0	0	0	---	---	23
24	---	---	0.0138	0.134	0	0	0	0	0	0	---	---	24
25	---	---	0.0188	0.126	0	0	0	0	0	0	---	---	25
26	---	---	0.0208	0.125	0	0	0	0	0	0	---	---	26
27	---	---	0.0188	0.118	0	0	0	0	0	0	---	---	27
28	---	---	0.0158	0.114	0	0	0	0	0	0	---	---	28
29	---		0.1008	0.107	0	0	0	0	0	0	---	---	29
30	---		0.4008	0.104	0	0	0	0	0	0	---	---	30
31	---		0.8008		0		0	0		0		---	31
TOTAL	---	---	8.210	19.320	0.657	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.265	0.644	0.021	0	0	0	0	0	---	---	MEAN
MAX	---	---	2.07	2.83	0.095	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.104	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.115
MAXIMUM DAILY, 2.638 ON APR 5
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
6.588 AT 18:51 CST ON APR 5

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 40 N
LONG 97 04 10 W
DRAINAGE AREA, 48.5 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	709	SEP	0
APR	1 670	OCT	0
MAY	56 8	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 2 440 dam³

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. 05RA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.238	2.808	2.84	2.91	5.41	8.71	15.3	9.01	3.55	3.27	2.60	2 748	1
2	3.198	2.828	2.82	2.98	5.22	8.65	15.8	8.77	3.49	3.20	2.55	2 728	2
3	3.118	2.868	2.80	3.04	5.01	9.05	17.2	8.40	3.32	3.08	2.49	2.658	3
4	3.118	2.718	2.81	3.21	4.97	10.1	17.4	8.18	3.21	2.97	2.51	2.648	4
5	3.358	2.678	2.84	3.40	4.92	11.1	15.9	8.04	3.15	2.94	2.50	2.618	5
6	3.278	2.948	3.00	3.55	4.89	11.2	16.5	7.68	3.23	2.83	2.48	2.508	6
7	3.178	2.948	3.20	4.06	4.83	11.2	16.0	7.48	3.24	2.87	2.51	2.468	7
8	3.118	3.178	3.13	4.52	4.81	11.4	15.8	7.08	3.22	2.91	2.49	2.518	8
9	3.148	3.378	3.06	5.21	4.76	11.6	15.3	6.71	3.15	2.87	2.45	2.418	9
10	3.108	3.378	3.03	5.95	4.78	11.6	15.8	6.62	3.18	2.94	2.42	2.338	10
11	3.048	3.228	3.01	6.71	5.00	11.7	15.4	6.28	3.18	3.06	2.41	2.368	11
12	2.958	3.248	3.03	6.95	5.35	11.6	15.3	6.13	3.10	3.09	2.44	2.538	12
13	3.008	3.288	3.03	6.44	6.39	11.7	15.2	5.90	3.02	2.98	2.46	2.508	13
14	3.048	3.218	2.98	5.75	6.87	11.8	14.9	5.67	2.98	2.88	2.45	2.468	14
15	3.088	3.08	2.98	5.22	7.14	12.9	14.8	5.51	2.96	2.81	2.45	2.318	15
16	3.058	2.88	2.94	4.70	7.17	13.4	14.8	5.20	2.96	2.78	2.47	2.358	16
17	2.998	2.90	2.90	4.37	6.85	13.0	14.3	5.07	2.94	2.72	2.48	2.288	17
18	2.998	2.83	2.87	4.18	6.89	12.6	14.0	4.83	2.88	2.66	2.49	2.258	18
19	2.938	2.89	2.85	4.03	7.28	12.2	13.8	4.66	2.93	2.62	2.48	2.268	19
20	3.038	2.83	2.85	4.13	8.23	12.2	13.6	4.48	3.13	2.63	2.618	2.258	20
21	3.088	2.92	2.86	4.47	8.35	12.2	13.1	4.47	3.23	2.81	2.728	2.238	21
22	3.048	2.88	2.84	4.87	8.13	20.0	12.7	4.37	3.14	2.69	2.718	2.308	22
23	3.058	2.89	2.84	5.08	8.13	18.4	12.3	4.25	3.11	2.69	2.718	2.338	23
24	2.988	2.86	2.82	5.08	8.20	17.2	11.8	4.24	3.11	2.75	2.728	2.228	24
25	2.788	2.78	2.82	5.20	8.27	16.6	11.5	4.55	3.10	2.74	2.728	2.198	25
26	2.688	2.78	2.85	5.28	8.23	15.1	11.1	4.31	3.10	2.71	2.748	2.208	26
27	2.708	2.78	2.82	5.60	8.53	15.5	10.8	4.07	3.14	2.68	2.738	2.418	27
28	2.788	2.82	2.87	5.72	8.48	15.0	10.4	3.94	3.13	2.72	2.728	2.378	28
29	2.918		2.88	5.73	8.48	14.7	9.97	3.81	3.10	2.72	2.738	2.268	29
30	2.848		2.85	5.59	8.71	14.8	9.65	3.73	3.12	2.63	2.748	2.218	30
31	2.818		2.88		8.72		9.36	3.63		2.60		2.228	31
TOTAL	93.48	82.92	90.68	143.95	209.20	389.22	430.88	176.99	94.13	87.68	76.97	74.04	TOTAL
MEAN	3.02	2.96	2.93	4.80	6.75	13.0	13.9	5.71	3.14	2.83	2.57	2.39	MEAN
MAX	3.35	3.37	3.20	6.95	8.72	20.0	17.4	9.01	3.55	3.27	2.74	2.74	MAX
MIN	2.69	2.67	2.80	2.91	4.76	8.65	9.36	3.63	2.69	2.58	2.41	2.19	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.34
MAXIMUM DAILY, 20.0 ON JUN 22
MINIMUM DAILY, 2.19B ON DEC 25
MAXIMUM INSTANTANEOUS,
22.4 AT 12:26 CST ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 54 N
LONG 96 17 00 W
DRAINAGE AREA, 1 800 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	8 080	JUL	37 200
FEB	7 180	AUG	15 300
MAR	7 830	SEP	8 130
APR	12 400	OCT	7 580
MAY	18 100	NOV	6 850
JUN	33 800	DEC	6 400

TOTAL DISCHARGE, 168 000 dam³

MANISTIKWAN LAKE NEAR FLIN FLON - STATION NO. 05KG004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1.487E	1.467	1.458	1.487	1.393	1.484	---	---	1
2	---	---	---	---	1.487E	1.466	1.457	1.483	1.395	1.484	---	---	2
3	---	---	---	---	1.487E	1.462	1.458	1.479	1.425	1.482	---	---	3
4	---	---	---	---	1.487E	1.436	1.450	1.477	1.422	1.482	---	---	4
5	---	---	---	---	1.487A	1.433	1.438	1.473	1.426	1.484	---	---	5
6	---	---	---	---	1.492	1.426	1.434	1.469	1.431	1.478	---	---	6
7	---	---	---	---	1.491	1.423	1.435	1.472	1.425	1.478	---	---	7
8	---	---	---	---	1.492	1.423	1.429	1.463	1.422	1.477	---	---	8
9	---	---	---	---	1.491	1.419	1.424	1.463	1.421	1.474	---	---	9
10	---	---	---	---	1.488	1.415	1.427	1.460	1.451	1.477	---	---	10
11	---	---	---	---	1.487	1.413	1.431	1.453	1.445	1.484	---	---	11
12	---	---	---	---	1.485	1.418	1.427	1.450	1.444	1.484	---	---	12
13	---	---	---	---	1.482	1.439	1.432	1.445	1.444	1.483	---	---	13
14	---	---	---	---	1.478	1.446	1.431	1.439	1.441	1.480	---	---	14
15	---	---	---	---	1.478	1.451	1.481	1.433	1.438	1.478	---	---	15
16	---	---	1.329A	---	1.473	1.460	1.475	1.425	1.433	1.480	---	---	16
17	---	---	---	---	1.473	1.446	1.484	1.422	1.444	1.478	---	---	17
18	---	---	---	---	1.476	1.442	1.489	1.421	1.459	1.471	---	---	18
19	---	---	---	---	1.478	1.440	1.494	1.424	1.482	1.469	---	---	19
20	---	---	---	---	1.478	1.439	1.500	1.411	1.489	1.465	---	---	20
21	---	---	---	---	1.477	1.436	1.503	1.410	1.490	1.466	---	---	21
22	---	---	---	---	1.474	1.438	1.507	1.407	1.486	1.465	---	---	22
23	---	---	---	---	1.474	1.432	1.504	1.405	1.487	1.465	---	---	23
24	---	---	---	---	1.471	1.430	1.503	1.400	1.490	1.463	---	---	24
25	---	---	---	---	1.467	1.445	1.505	1.404	1.491	1.463	---	---	25
26	---	---	---	---	1.468	1.466	1.503	1.402	1.491	1.461	---	---	26
27	---	---	---	---	1.467	1.463	1.500	1.399	1.490	1.461	---	---	27
28	---	---	---	---	1.466	1.462	1.499	1.398	1.492	1.457	---	---	28
29	---		---	---	1.459	1.461	1.497	1.397	1.487	1.456	---	---	29
30	---		---	---	1.456	1.464	1.491	1.394	1.486	1.453	---	---	30
31	---		---		1.449		1.489	1.391		1.452A		---	31
MEAN	---	---	---	---	1.477	1.440	1.469	1.434	1.454	1.472	---	---	MEAN
MAX	---	---	---	---	1.492	1.466	1.507	1.487	1.492	1.484	---	---	MAX
MIN	---	---	---	---	1.449	1.413	1.424	1.391	1.393	1.452	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 1.507 ON JUL 22

MAXIMUM INSTANTANEOUS,
1.512 AT 12:49 CST ON JUL 22

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 43 00 N
LONG 101 46 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

MANNES DRAIN NEAR SANFORD - STATION NO. 05DG010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.13 B	0.012	0	0.024	0	0	0	---	---	1
2	---	---	0 B	1.15 B	0.009	0	0.015	0.002	0	0	---	---	2
3	---	---	0.025B	1.21 B	0.007	0	0.013	0.003	0	0	---	---	3
4	---	---	0.100B	1.88 B	0.006	0	0.010	0	0	0	---	---	4
5	---	---	0.200B	3.16	0.005	0	0.007	0	0	0	---	---	5
6	---	---	0.100B	4.87	0.003	0	0.004	0	0	0	---	---	6
7	---	---	0.050B	5.84	0.001	0	0.002	0	0	0	---	---	7
8	---	---	0.025B	4.65	0	0	0	0	0	0	---	---	8
9	---	---	0 B	3.54	0	0	0	0	0	0	---	---	9
10	---	---	0 B	2.48	0	0	0	0	0	0	---	---	10
11	---	---	0 B	1.52	0	0	0	0	0	0	---	---	11
12	---	---	0.014B	1.11	0	0	0	0	0	0	---	---	12
13	---	---	0.050B	0.880B	0	0	0	0	0	0	---	---	13
14	---	---	0.088B	0.405B	0	0	0	0	0	0	---	---	14
15	---	---	0.046B	0.145B	0	0	0	0	0	0	---	---	15
16	---	---	0.030B	0.131B	0	0	0	0	0	0	---	---	16
17	---	---	0.025B	0.110B	0	0	0	0	0	0	---	---	17
18	---	---	0.011B	0.102	0	0	0	0	0	0	---	---	18
19	---	---	0.010B	0.093	0	0	0	0	0	0	---	---	19
20	---	---	0.009B	0.088	0	0	0	0	0	0	---	---	20
21	---	---	0.003B	0.086	0	0.021	0	0	3	0	---	---	21
22	---	---	0 B	0.083	0	0.218	0	0	0	0	---	---	22
23	---	---	0 B	0.080	0	0.289	0	0	0	0	---	---	23
24	---	---	0.004B	0.075	0	0.282	0	0	0	0	---	---	24
25	---	---	0.009B	0.087	0	0.171	0	0	0	0	---	---	25
26	---	---	0.002B	0.092	0	0.114	0	0	0	0	---	---	26
27	---	---	0 B	0.046	0	0.069	0	0	0	0	---	---	27
28	---	---	0.007B	0.033	0	0.042	0	0	0	0	---	---	28
29	---		0.025B	0.026	0	0.028	0	0	0	0	---	---	29
30	---		0.149B	0.018	0	0.033	0	0	0	0	---	---	30
31	---		0.871B		0		0	0		0	---	---	31
TOTAL	---	---	1.841	34.880	0.043	1.245	0.076	0.005	0	0	---	---	TOTAL
MEAN	---	---	0.059	1.16	0.001	0.042	0.002	0	0	0	---	---	MEAN
MAX	---	---	0.871	5.84	0.012	0.289	0.024	0.003	0	0	---	---	MAX
MIN	---	---	0	0.018	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.155
MAXIMUM DAILY, 5.84 ON APR 7
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
6.39 AT 20:58 CST ON APR 6

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 14 N
LONG 97 22 32 W

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	8.57
FEB	---	AUG	0.43
MAR	159	SEP	0
APR	3 010	OCT	0
MAY	3.72	NOV	---
JUN	108	DEC	---

TOTAL DISCHARGE, 3 290 dam³

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05BL006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.05 B	0.282	0.127	0.238	0.103	0.077	0.139	---	---	1
2	---	---	0 B	5.15 B	0.256	0.127	0.245	0.113	0.087	0.158	---	---	2
3	---	---	0 B	9.89 B	0.238	0.136	0.280	0.240	0.056	0.282	---	---	3
4	---	---	0 B	13.7 B	0.223	0.130	0.520	0.219	0.049	0.248	---	---	4
5	---	---	0 B	14.6 B	0.209	0.132	0.826	0.127	0.049	0.198	---	---	5
6	---	---	0.0038	15.6 B	0.194	0.129	1.44	0.048	0.055	0.187	---	---	6
7	---	---	3.44 B	15.5 B	0.178	0.126	1.24	0.003	0.060	0.153	---	---	7
8	---	---	9.05 B	13.4 B	0.172	0.121	0.980	0	0.071	0.132	---	---	8
9	---	---	15.9 B	10.5 B	0.168	0.119	0.770	0	0.088	0.123	---	---	9
10	---	---	18.1 B	4.70 B	0.167	0.116	0.897	0	0.093	0.120	---	---	10
11	---	---	18.1 B	3.64 B	0.167	0.108	0.642	0	0.257	0.119	---	---	11
12	---	---	13.9 B	3.38 B	0.167	0.106	0.590	0	0.322	0.121	---	---	12
13	---	---	11.7 B	2.87 B	0.162	0.115	0.534	0	0.240	0.127	---	---	13
14	---	---	9.64 B	2.85 B	0.163	0.115	0.47.2	0	0.227	0.124	---	---	14
15	---	---	8.30 B	2.10 B	0.185	0.127	0.422	0	0.253	0.118	---	---	15
16	---	---	6.32 B	1.95 B	0.184	0.393	0.371	0	0.219	0.108	---	---	16
17	---	---	3.06 B	1.38 B	0.184	0.666	0.316	0	0.208	0.118	---	---	17
18	---	---	1.22 B	1.17	0.182	0.471	0.273	0	0.187	0.127	---	---	18
19	---	---	0.9498	1.00	0.184	0.328	0.385	0	0.178	0.138	---	---	19
20	---	---	0.7818	0.870	0.184	0.270	0.502	0	0.170	0.135	---	---	20
21	---	---	0.6478	0.789	0.181	0.248	0.439	0	0.184	0.132	---	---	21
22	---	---	0.4978	0.699	0.184	0.268	0.384	0	0.185	0.141	---	---	22
23	---	---	0.4438	0.626	0.184	0.488	0.288	0	0.163	0.157	---	---	23
24	---	---	0.3888	0.557	0.525	0.181	0.004	0.135	0.136	---	---	---	24
25	---	---	0.3558	0.499	0.150	0.800	0.135	0.012	0.128	0.127	---	---	25
26	---	---	0.3058	0.443	0.141	0.615	0.080	0.014	0.121	0.122	---	---	26
27	---	---	0.2578	0.398	0.132	0.388	0.038	0.012	0.131	0.116	---	---	27
28	---	---	0.3108	0.369	0.129	0.218	0.008	0.037	0.158	0.103	---	---	28
29	---		0.3708	0.341	0.130	0.278	0	0.043	0.135	0.099	---	---	29
30	---		0.4498	0.313	0.137	0.285	0.029	0.028	0.121	0.096	---	---	30
31	---		2.12 B		0.133		0.132	0.059		0.093		---	31
TOTAL	---	---	125.344	138.814	5.281	7.620	13.784	1.083	4.318	4.288	---	---	TOTAL
MEAN	---	---	4.04	4.63	0.171	0.254	0.445	0.034	0.144	0.138	---	---	MEAN
MAX	---	---	18.1	15.6	0.282	0.666	1.44	0.240	0.322	0.282	---	---	MAX
MIN	---	---	0	0.313	0.129	0.108	0	0	0.049	0.093	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.23
MAXIMUM DAILY, 19.85 ON APR 6
MINIMUM DAILY, 0B 0.0 MAR 1
MAXIMUM INSTANTANEOUS,
26.6B AT 08:52 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 50 N
LONG 96 54 20 W
DRAINAGE AREA, 490 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 190
FEB	---	AUG	82.3
MAR	10 800	SEP	373
APR	12 000	OCT	370
MAY	457	NOV	---
JUN	658	DEC	---

TOTAL DISCHARGE, 25 900 dam³

MAPLE (MARSHY) LAKE NEAR PIPESTONE - STATION NO. 05MD022

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	430.380E	430.847	430.849	430.711	430.509	430.281	430.187	430.127A	---	1
2	---	---	---	430.380E	430.889	430.853	430.724	430.496	430.272	430.171	---	---	2
3	---	---	---	430.380E	430.898	430.883	430.736	430.481	430.280	430.178	---	---	3
4	---	---	---	430.380E	430.906	430.899	430.736	430.484	430.290	430.177	---	---	4
5	---	---	---	430.380A	430.913	430.894	430.731	430.483	430.243	430.177	---	---	5
6	---	---	---	430.385	430.918	430.849	430.726	430.464	430.235	430.178	---	---	6
7	---	---	---	430.434	430.908	430.843	430.720	430.441	430.227	430.178	---	---	7
8	---	---	---	430.470	430.890	430.839	430.711	430.436	430.218	430.176	---	---	8
9	---	---	---	430.472	430.880	430.831	430.710	430.418	430.213	430.175	---	---	9
10	---	---	---	430.466	430.872	430.825	430.748	430.406	430.208	430.174	---	---	10
11	---	---	---	430.459	430.869	430.817	430.780	430.392	430.200	430.172	---	---	11
12	---	---	---	430.448	430.882	430.808	430.763	430.378	430.187	430.170	---	---	12
13	---	---	---	430.440	430.887	430.800	430.736	430.366	430.193	430.187	---	---	13
14	---	---	---	430.426	430.888	430.783	430.736	430.354	430.189	430.188	---	---	14
15	---	---	---	430.430	430.914	430.784	430.730	430.344	430.201	430.183	---	---	15
16	---	---	---	430.413	430.908	430.777	430.714	430.334	430.204	430.181	---	---	16
17	---	---	---	430.408	430.905	430.768	430.700	430.323	430.202	430.187	---	---	17
18	---	---	---	430.405	430.900	430.760	430.682	430.314	430.195	430.182	---	---	18
19	---	---	---	430.411	430.909	430.753	430.680	430.308	430.189	430.168	---	---	19
20	---	---	---	430.413	430.902	430.747	430.687	430.308	430.184	430.190	---	---	20
21	---	---	---	430.408	430.908	430.740	430.687	430.315	430.179	430.180	---	---	21
22	---	---	---	430.407	430.901	430.748	430.684	430.311	430.172	430.168	---	---	22
23	---	---	---	430.727	430.898	430.742	430.630	430.314	430.185	430.167	---	---	23
24	---	---	---	430.781	430.897	430.737	430.618	430.314	430.182	430.168	---	---	24
25	---	---	---	430.781	430.890	430.733	430.602	430.310	430.188	430.167	---	---	25
26	---	---	---	430.788	430.884	430.723	430.591	430.305	430.148	430.164	---	---	26
27	---	---	---	430.778	430.881	430.713	430.578	430.297	430.190	430.160	---	---	27
28	---	---	---	430.782	430.878	430.708	430.563	430.291	430.134	430.157	---	---	28
29	---		---	430.785	430.885	430.700	430.548	430.288	430.131	430.155	---	---	29
30	---		---	430.818	430.898	430.712	430.535	430.284	430.148	430.152	---	---	30
31	---		---		430.894		430.533	430.287		430.150		---	31
MEAN	---	---	---	430.531	430.891	430.766	430.672	430.335	430.187	430.168	---	---	MEAN
MAX	---	---	---	430.818	430.918	430.863	430.750	430.509	430.281	430.178	---	---	MAX
MIN	---	---	---	430.380	430.847	430.700	430.533	430.287	430.131	430.150	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 430.918 ON MAY 6

MAXIMUM INSTANTANEOUS,
430.926 AT 14:25 CST ON MAY 13

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 14 N
LONG 100 4A 58 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1990

DRAINAGE AREA,
1 170 km²

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05OB010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.20 B	0.272	0	0	0	0	0	---	---	1
2	---	---	0 B	7.45 B	0.312	0	0	0	0	0	---	---	2
3	---	---	0 B	7.80 B	0.333	0	0	0	0	0	---	---	3
4	---	---	0 B	10.2 B	0.356	0	0	0	0	0	---	---	4
5	---	---	0.0650	18.0 B	0.352	0	0	0	0	0	---	---	5
6	---	---	0.0650	24.2 B	0.319	0	0	0	0	0	---	---	6
7	---	---	0.0700	26.0 B	0.315	0	0	0	0	0	---	---	7
8	---	---	0.0720	25.8 B	0.276	0	0	0	0	0	---	---	8
9	---	---	4.20 B	24.8 B	0.333	0	0	0	0	0	---	---	9
10	---	---	7.00 B	19.5 B	0.314	0	0	0	0	0	---	---	10
11	---	---	5.00 B	15.7 B	0.327	0	0	0	0	0	---	---	11
12	---	---	4.20 B	12.2 B	0.321	0	0	0	0	0	---	---	12
13	---	---	3.60 B	8.45 B	0.321	0	0	0	0	0	---	---	13
14	---	---	2.20 B	5.60 B	0.297	0	0	0	0	0	---	---	14
15	---	---	1.70 B	2.09 B	0.288	0	0	0	0	0	---	---	15
16	---	---	0.8008	2.84 B	0.279	0	0	0	0	0	---	---	16
17	---	---	0.7008	2.38	0.242	0	0	0	0	0	---	---	17
18	---	---	0.6008	1.95	0.233	0	0	0	0	0	---	---	18
19	---	---	0.3508	1.55	0.209	0	0	0	0	0	---	---	19
20	---	---	0.2808	1.16	0.247	0	0	0	0	0	---	---	20
21	---	---	0.2408	0.875	0.280	0	0	0	0	0	---	---	21
22	---	---	0.2008	0.683	0.234	0	0	0	0	0	---	---	22
23	---	---	0.6008	0.548	0.207	0	0	0	0	0	---	---	23
24	---	---	1.22 B	0.445	0.180	0	0	0	0	0	---	---	24
25	---	---	0.8508	0.372	0.185	0	0	0	0	0	---	---	25
26	---	---	0.7208	0.330	0.021	0	0	0	0	0	---	---	26
27	---	---	0.6808	0.303	0	0	0	0	0	0	---	---	27
28	---	---	0.5708	0.302	0	0	0	0	0	0	---	---	28
29	---		0.5508	0.297	0	0	0	0	0	0	---	---	29
30	---		2.75 B	0.297	0	0	0	0	0	0	---	---	30
31	---		4.85 B		0		0	0		0		---	31
TOTAL	---	---	44.115	227.340	7.004	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	1.42	7.58	0.226	0	0	0	0	0	---	---	MEAN
MAX	---	---	7.00	26.0	0.356	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.297	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.14
MAXIMUM DAILY, 26.0B ON APR 7
MINIMUM DAILY, 0B ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 30 00 N
LONG 97 09 20 W
DRAINAGE AREA, 485 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	3 810	SEP	0
APR	19 600	OCT	0
MAY	605	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 24 000 dam³

MARY JANE RESERVOIR NEAR LA RIVIERE - STATION NO. 05OB014

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	488.135	488.105	488.085	488.672	488.494	488.418	488.358	488.236	488.001	487.966	487.918	487.888	1
2	488.134	488.103	488.085	488.680	488.492	488.412	488.356	488.233	488.007	487.963	487.916	487.889	2
3	488.132	488.103	488.086	488.693	488.488	488.408	488.356	488.230	488.006	487.962	487.914	487.888	3
4	488.131	488.101	488.088	488.708	488.484	488.404	488.354	488.226	488.003	487.945	487.912	487.888	4
5	488.130	488.099	488.089	488.716	488.482	488.400	488.350	488.218	487.996	487.948	487.911	487.887	5
6	488.128	488.098	488.090	488.683	488.478	488.395	488.343	488.211	487.993	487.947	487.909	487.885	6
7	488.128	488.097	488.120	488.718	488.474	488.390	488.340	488.202	487.990	487.947	487.906	487.882	7
8	488.127	488.095	488.135	488.746	488.473	488.387	488.337	488.193	487.987	487.947	487.903	487.880	8
9	488.126	488.094	488.137	488.772	488.466	488.385	488.332	488.184	487.984	487.948	487.902	487.878	9
10	488.125	488.093	488.137	488.733	488.465	488.380	488.328	488.177	487.978	487.948	487.900	487.877	10
11	488.123	488.092	488.140	488.678	488.461	488.380	488.317	488.167	487.972	487.948	487.898	487.878	11
12	488.122	488.091	488.141	488.627	488.460	488.375	488.310	488.159	487.969	487.945	487.898	487.875	12
13	488.122	488.091	488.178	488.578	488.458	488.371	488.303	488.150	487.965	487.944	487.896	487.874	13
14	488.121	488.090	488.220	488.550	488.451	488.370	488.297	488.143	487.964	487.943	487.895	487.874	14
15	488.119	488.089	488.276	488.543	488.451	488.368	488.293	488.134	487.958	487.942	487.895	487.874	15
16	488.118	488.087	488.378	488.535	488.463	488.365	488.285	488.120	487.980	487.940	487.893	487.874	16
17	488.118	488.086	488.410	488.526	488.462	488.362	488.280	488.052	487.985	487.939	487.892	487.874	17
18	488.117	488.086	488.421	488.522	488.458	488.356	488.274	488.028	487.985	487.939	487.891	487.872	18
19	488.116	488.086	488.431	488.520	488.457	488.351	488.270	488.019	487.982	487.935	487.891	487.871	19
20	488.114	488.086	488.433	488.520	488.457	488.349	488.271	488.012	487.978	487.934	487.891	487.870	20
21	488.114	488.086	488.423	488.523	488.456	488.350	488.272	488.010	487.974	487.933	487.892	487.869	21
22	488.113	488.085	488.435	488.527	488.452	488.361	488.269	488.008	487.984	487.932	487.891	487.867	22
23	488.112	488.085	488.435	488.528	488.450	488.367	488.281	488.004	487.984	487.932	487.891	487.865	23
24	488.111	488.085	488.435	488.528	488.447	488.367	488.285	488.008	487.980	487.931	487.892	487.861	24
25	488.111	488.085	488.435	488.524	488.444	488.368	488.280	488.010	487.988	487.928	487.892	487.860	25
26	488.111	488.083	488.435	488.518	488.440	488.368	488.244	488.010	487.985	487.927	487.890	487.859	26
27	488.110	488.083	488.436	488.511	488.436	488.368	488.241	488.008	487.982	487.926	487.888	487.858	27
28	488.110	488.084	488.445	488.505	488.432	488.367	488.228	488.007	487.968	487.924	487.888	487.858	28
29	488.109		488.502	488.498	488.428	488.364	488.230	488.003	487.967	487.923	487.889	487.855	29
30	488.108		488.584	488.498	488.421	488.359	488.230	488.003	487.964	487.920	487.888	487.853	30
31	488.106		488.718		488.419		488.234	488.001		487.919		487.852	31
MEAN	488.119	488.091	488.302	488.583	488.458	488.376	488.293	488.102	487.978	487.937	487.898	487.872	MEAN
MAX	488.135	488.105	488.718	488.772	488.494	488.418	488.358	488.236	488.007	487.966	487.918	487.889	MAX
MIN	488.106	488.083	488.085	488.498	488.419	488.359	488.230	488.001	487.964	487.919	487.888	487.852	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 488.187
MAXIMUM DAILY, 488.772 ON APR 8
MINIMUM DAILY, 487.852 ON DEC 31
MAXIMUM INSTANTANEOUS,
488.781 AT 03:00 CST ON APR 8

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 17 14 N
LONG 98 37 27 W

REGULATED

DRAINAGE AREA,
81.0 km²

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.003B	0.654	0.492	0.765	0.128E	0.039E	0.106	---	---	1
2	---	---	0 B	0.001B	0.894	0.486	0.487	0.128E	0.038E	0.098	---	---	2
3	---	---	0 B	0 B	0.716	0.485	0.516	0.119E	0.038E	0.090	---	---	3
4	---	---	0 B	0 B	0.640	1.22	0.550	0.107E	0.038E	0.099	---	---	4
5	---	---	0 B	0 B	0.590	1.01	0.573	0.103E	0.037E	0.106	---	---	5
6	---	---	0 B	0 B	0.552	0.855	0.412	0.097E	0.038E	0.087	---	---	6
7	---	---	0 B	0 B	0.508	0.684	0.377	0.094E	0.035E	0.076E	---	---	7
8	---	---	0 B	0 B	0.477	0.654	0.380	0.089E	0.039	0.071E	---	---	8
9	---	---	0 B	0.094B	0.432A	0.626	0.335	0.085E	0.092	0.071E	---	---	9
10	---	---	0 B	0.361B	0.414A	0.578	1.34	0.082E	0.107	0.071E	---	---	10
11	---	---	0 B	0.368B	0.382A	0.532	1.72	0.078E	0.089	0.083	---	---	11
12	---	---	0 B	0.371B	0.351	0.483	0.812	0.078E	0.085	0.084	---	---	12
13	---	---	0 B	0.350B	0.430	0.491	0.466A	0.073E	0.077	0.045	---	---	13
14	---	---	0 B	0.337B	0.470	0.507	0.340A	0.071E	0.105	0.051	---	---	14
15	---	---	0 B	0.331B	0.456	0.543	0.323	0.068E	0.163	0.059	---	---	15
16	---	---	0 B	0.322B	0.647	0.594	4.84	0.066E	0.201	0.088	---	---	16
17	---	---	0 B	0.319B	1.70	0.574	2.01	0.063E	0.200	0.063	---	---	17
18	---	---	0 B	0.316B	3.59	0.510	0.939	0.061E	0.186	0.062	---	---	18
19	---	---	0 B	0.919B	3.68	0.484	0.644	0.059E	0.146	0.051	---	---	19
20	---	---	0 B	3.77 B	1.78	0.488	0.506	0.058E	0.137	0.050	---	---	20
21	---	---	0 B	3.53 B	1.28	0.436	0.407	0.056E	0.128	0.064	---	---	21
22	---	---	0 B	3.02 B	1.02	0.383A	0.301E	0.053E	0.123	0.069	---	---	22
23	---	---	0 B	3.38 B	0.977	0.378A	0.252E	0.051E	0.121	0.079	---	---	23
24	---	---	0 B	5.36 B	0.900	0.372	0.223E	0.048E	0.122	0.078	---	---	24
25	---	---	0 B	4.88 B	0.749	0.358	0.192E	0.047E	0.108	0.076	---	---	25
26	---	---	0 B	3.23	0.681	0.334	0.175E	0.046E	0.095	0.076	---	---	26
27	---	---	0 B	1.70	0.706	0.306	0.164E	0.044E	0.073	0.074	---	---	27
28	---	---	0 B	0.985	0.638	0.283	0.152E	0.042E	0.067	0.073	---	---	28
29	---		0 B	0.789	0.580	0.259	0.144E	0.041E	0.074	0.076	---	---	29
30	---		0 B	0.670	0.545	0.652	0.165E	0.040E	0.089	0.078	---	---	30
31	---		0.002B		0.530		0.152E	0.039E		0.069		---	31
TOTAL	---	---	0.002	35.385	27.990	16.477	20.762	2.218	2.848	2.283	---	---	TOTAL
MEAN	---	---	0	1.18	0.903	0.549	0.670	0.072	0.095	0.074	---	---	MEAN
MAX	---	---	0.002	5.36	3.68	1.22	4.84	0.138	0.201	0.106	---	---	MAX
MIN	---	---	0	0	0.351	0.259	0.144	0.039	0.035	0.045	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.441
MAXIMUM DAILY, 5.368 ON APR 24
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
8.848 AT 23:43 CST ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 48 00 N
LONG 99 28 48 W
DRAINAGE AREA, 78.2 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 780
FEB	---	AUG	182
MAR	0.17	SEP	246
APR	3 060	OCT	197
MAY	2 420	NOV	---
JUN	1 420	DEC	---

TOTAL DISCHARGE, 9 330 dam³

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NC020

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.11 B	0.005	0	0	0	0	0	---	---	1
2	---	---	0 B	5.13 B	0.005	0	0	0	0	0	---	---	2
3	---	---	0 B	4.46 B	0.003	0	0	0	0	0	---	---	3
4	---	---	0 B	5.52 B	0.002	0	0	0	0	0	---	---	4
5	---	---	0 B	3.72 B	0.001	0	0	0	0	0	---	---	5
6	---	---	0 B	2.40 B	0.001	0	0	0	0	0	---	---	6
7	---	---	0 B	1.76	0	0	0	0	0	0	---	---	7
8	---	---	0 B	1.27	0	0	0	0	0	0	---	---	8
9	---	---	0 B	0.990	0	0	0	0	0	0	---	---	9
10	---	---	0 B	0.676	0	0	0	0	0	0	---	---	10
11	---	---	0 B	0.559	0	0	0	0	0	0	---	---	11
12	---	---	0.001B	0.541	0	0	0	0	0	0	---	---	12
13	---	---	0.010B	0.414	0	0	0	0	0	0	---	---	13
14	---	---	0.025B	0.258	0	0	0	0	0	0	---	---	14
15	---	---	0.040B	0.324	0.015	0	0	0	0	0	---	---	15
16	---	---	0.050B	0.243	0.012	0	0	0	0	0	---	---	16
17	---	---	0.050B	0.208	0.006	0	0	0	0	0	---	---	17
18	---	---	0.100B	0.179	0.004	0	0	0	0	0	---	---	18
19	---	---	0.050B	0.188	0.010	0	0	0	0	0	---	---	19
20	---	---	0.010B	0.167	0.006	0	0	0	0	0	---	---	20
21	---	---	0.005B	0.156	0.008	0	0	0	0	0	---	---	21
22	---	---	0.003B	0.126	0.006	0	0	0	0	0	---	---	22
23	---	---	0.003B	0.097	0.006	0	0	0	0	0	---	---	23
24	---	---	0.010B	0.086	0.005	0	0	0	0	0	---	---	24
25	---	---	0.024B	0.087	0.005	0	0	0	0	0	---	---	25
26	---	---	0.040B	0.067	0.005	0	0	0	0	0	---	---	26
27	---	---	0.041B	0.062	0.005	0	0	0	0	0	---	---	27
28	---	---	0.174B	0.062	0.003	0	0	0	0	0	---	---	28
29	---		1.20 B	0.033	0.002	0	0	0	0	0	---	---	29
30	---		2.43 B	0.020	0.001	0	0	0	0	0	---	---	30
31	---		4.76 B		0.001		0	0		0		---	31
TOTAL	---	---	9.046	34.913	0.119	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.292	1.16	0.004	0	0	0	0	0	---	---	MEAN
MAX	---	---	4.76	5.52	0.015	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.020	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.180
MAXIMUM DAILY, 5.520 ON APR 4
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
7.778 AT 13:08 CST ON APR 2

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 30 N
LONG 100 42 10 W
DRAINAGE AREA, 434 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	782	SEP	0
APR	3 020	OCT	0
MAY	10.3	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 3 810 dam³

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0 B	1.16	0.227	0.691	0.029	0	0.005	---	---	1
2	---	---	0 B	0 B	0.976	0.206	0.469	0.041	0	0.011	---	---	2
3	---	---	0 B	0 B	0.870	0.223	0.464	0.062	0	0.016A	---	---	3
4	---	---	0 B	0.0018	0.748	0.312	0.538	0.044	0	0.040E	---	---	4
5	---	---	0 B	0.0028	0.672	0.346	0.998	0.031	0	0.034A	---	---	5
6	---	---	0 B	0.0038	0.599	0.308	1.04	0.024	0	0.031	---	---	6
7	---	---	0 B	0.0048	0.557	0.289	0.847	0.015	0	0.025	---	---	7
8	---	---	0 B	0.0088	0.480	0.625	0.500	0.013	0	0.027	---	---	8
9	---	---	0 B	0.0118	0.411	0.502	0.295	0.017	0	0.036	---	---	9
10	---	---	0 B	0.0148	0.349	0.411	0.244	0.018	0.006	0.054	---	---	10
11	---	---	0 B	0.0058	0.337	0.282	0.215	0.009	0.013	0.063	---	---	11
12	---	---	0 B	0 B	0.282	0.270	0.219	0.004	0.014	0.065A	---	---	12
13	---	---	0 B	0 B	0.239	0.273	0.203	0.003	0.022	0.081E	---	---	13
14	---	---	0 B	0 B	0.170	0.288	0.186	0	0.017	0.086E	---	---	14
15	---	---	0 B	0 B	0.246	0.277	0.148	0	0.012	0.082E	---	---	15
16	---	---	0 B	0 B	0.361	0.238	0.230	0	0.007	0.081E	---	---	16
17	---	---	0 B	0.0048	0.927	0.258	0.184	0	0.007	0.080E	---	---	17
18	---	---	0 B	0.0408	1.87	0.207	0.179	0	0.007	0.079E	---	---	18
19	---	---	0 B	0.1068	2.39	0.182	0.412	0	0.011	0.078E	---	---	19
20	---	---	0 B	0.1898	1.98	0.171	0.379	0	0.013	0.077E	---	---	20
21	---	---	0 B	1.07 B	2.46	0.157	0.152	0	0.008	0.075E	---	---	21
22	---	---	0 B	2.87 B	2.47	0.147	0.103	0	0.009	0.074E	---	---	22
23	---	---	0 B	5.26 B	2.28	0.137	0.088	0	0.008	0.073E	---	---	23
24	---	---	0 B	8.31 B	2.06	0.124	0.075	0	0.008	0.072E	---	---	24
25	---	---	0 B	7.92 B	1.57	5.50	0.055	0	0.004	0.071E	---	---	25
26	---	---	0 B	7.64	1.13	5.08	0.054	0	0.004	0.070E	---	---	26
27	---	---	0 B	4.77	0.846	3.75	0.047	0	0.004	0.082E	---	---	27
28	---	---	0 B	2.85	0.760	1.90	0.036	0	0.004	0.106E	---	---	28
29	---		0 B	2.01	0.483	1.25	0.030	0	0.003	0.100E	---	---	29
30	---		0 B	1.52	0.315	0.835	0.025	0	0.003	0.092E	---	---	30
31	---		0 B		0.249		0.023	0		0.077E		---	31
TOTAL	---	---	0	66.611	30.250	24.154	8.109	0.310	0.182	1.910	---	---	TOTAL
MEAN	---	---	0	1.49	0.976	0.805	0.294	0.010	0.006	0.062	---	---	MEAN
MAX	---	---	0	8.31	2.47	5.50	1.04	0.062	0.022	0.106	---	---	MAX
MIN	---	---	0	0	0.170	0.124	0.023	0	0	0.005	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.451
MAXIMUM DAILY, 8.310 ON APR 24
MINIMUM DAILY, 0B ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 00 N
LONG 100 21 10 W
DRAINAGE AREA, 132 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	787
FEB	---	AUG	26.8
MAR	0	SEP	15.7
APR	3 850	OCT	165
MAY	2 610	NOV	---
JUN	2 090	DEC	---

TOTAL DISCHARGE, 9 540 dam³

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05MD006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0.038	0.087	---	---	---	---	---	---	1
2	---	---	0B	0 B	0.032	0.081	---	---	---	---	---	---	2
3	---	---	0B	0 B	0.022	0.066	---	---	---	---	---	---	3
4	---	---	0B	0 B	0.018	0.073	---	---	---	---	---	---	4
5	---	---	0B	0.0018	0.005	0.123	---	---	---	---	---	---	5
6	---	---	0B	0.0018	0	0.082	---	---	---	---	---	---	6
7	---	---	0B	0.0508	0.064	0.047	---	---	---	---	---	---	7
8	---	---	0B	0.5378	0.357	0.033	---	---	---	---	---	---	8
9	---	---	0B	1.61 B	0.410	0.026	---	---	---	---	---	---	9
10	---	---	0B	1.55 B	0.440	0.037	---	---	---	---	---	---	10
11	---	---	0B	0.9068	0.374	0.031	---	---	---	---	---	---	11
12	---	---	0B	0.4118	0.416	0.026	---	---	---	---	---	---	12
13	---	---	0B	0.5538	0.503	0.017	---	---	---	---	---	---	13
14	---	---	0B	0.6948	0.513	0.012	---	---	---	---	---	---	14
15	---	---	0B	0.5208	0.492	0.004	---	---	---	---	---	---	15
16	---	---	0B	0.2888	0.500	0	---	---	---	---	---	---	16
17	---	---	0B	0.1828	0.502	0	---	---	---	---	---	---	17
18	---	---	0B	0.1498	0.508	0	---	---	---	---	---	---	18
19	---	---	0B	0.432	0.433	0	---	---	---	---	---	---	19
20	---	---	0B	1.26	0.416	0	---	---	---	---	---	---	20
21	---	---	0B	2.57	0.461	0	---	---	---	---	---	---	21
22	---	---	0B	2.76	0.569	0	---	---	---	---	---	---	22
23	---	---	0B	1.83	0.420	0	---	---	---	---	---	---	23
24	---	---	0B	1.17	0.303	0	---	---	---	---	---	---	24
25	---	---	0B	0.745	0.261	0	---	---	---	---	---	---	25
26	---	---	0B	0.483	0.217	0	---	---	---	---	---	---	26
27	---	---	0B	0.282	0.182	0	---	---	---	---	---	---	27
28	---	---	0B	0.201	0.163	0	---	---	---	---	---	---	28
29	---		0B	0.091	0.137	0	---	---	---	---	---	---	29
30	---		0B	0.059	0.123	0	---	---	---	---	---	---	30
31	---		0B		0.111		---	---		---		---	31
TOTAL	---	---	0	19.517	8.998	0.787	---	---	---	---	---	---	TOTAL
MEAN	---	---	0	0.651	0.290	0.026	---	---	---	---	---	---	MEAN
MAX	---	---	0	2.76	0.569	0.133	---	---	---	---	---	---	MAX
MIN	---	---	0	0	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.269
MAXIMUM DAILY, 2.76 ON APR 22
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
2.84 AT 01:00 CST ON APR 22

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 09 N
LONG 101 01 14 W
DRAINAGE AREA, 350 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	0	SEP	---
APR	1 690	OCT	---
MAY	777	NOV	---
JUN	88.0	DEC	---

TOTAL DISCHARGE, 2 540 dam³

MORDEN RESERVOIR NEAR MORDEN - STATION NO. 05OC001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	329.377E	329.275E	329.321E	---	329.784E	329.671E	329.607E	329.385	329.110	---	328.818E	328.684E	1
2	329.368E	329.270	329.394E	329.818	329.781	329.671	329.610E	329.380	329.100	---	328.811	328.647	2
3	329.359	329.267E	329.467E	---	329.771	329.671	329.612E	329.355	329.090E	---	328.798E	328.645E	3
4	329.354E	329.265E	329.540E	329.816	329.771E	329.669E	329.615	329.340	329.080E	---	328.778E	328.644E	4
5	329.349	329.262E	329.613E	329.846	329.771	329.667E	329.610	329.326E	329.070	---	328.761	328.642	5
6	329.348E	329.260E	329.686E	329.945	329.771E	329.656	329.605	329.312E	329.070	---	328.758E	328.637E	6
7	329.348	329.258	329.759E	329.944	329.771	329.661	329.600E	329.298E	329.085	---	328.751	328.632E	7
8	329.344E	329.256	329.832	---	329.771E	329.656	329.595	329.285	329.055	---	328.741E	328.627	8
9	329.341E	329.254E	329.832	329.943	329.771E	329.669	329.592E	329.275	329.055	---	328.731	328.625E	9
10	329.337	329.251E	---	---	329.771	329.663E	329.588E	329.265	329.045E	---	328.728E	328.624E	10
11	329.337E	329.248	329.800	---	329.741	329.657E	329.585	329.245	329.035E	---	328.721	328.623E	11
12	329.337	329.244E	---	329.821	329.731	329.652E	329.580	329.230	329.025	328.911	328.718E	328.621E	12
13	329.333E	329.241E	330.021	---	329.736E	329.646	329.535	329.220E	329.015	328.903E	328.711E	328.620	13
14	329.330E	329.236	---	329.786	329.741	329.641	329.525	329.210E	329.015	328.895E	328.705	328.614E	14
15	329.326	329.233E	---	---	329.741E	329.638E	329.515	329.200	329.030	328.887E	328.703E	328.608	15
16	329.323E	329.226	---	329.781	329.741	329.636	329.505E	329.185	329.025	328.879E	328.701	328.603E	16
17	329.321E	329.236	---	---	329.736E	329.631E	329.495E	329.175E	---	328.871	328.694E	328.598E	17
18	329.318E	329.246	329.787	329.786	329.734E	329.626	329.485	329.165	---	328.868E	328.688E	328.593E	18
19	329.315E	329.248E	---	329.781	329.731	329.618E	329.475	329.155	---	328.866	328.681	328.588	19
20	329.313E	329.248E	---	329.801	329.731	329.611	329.475	329.145E	---	328.863E	328.688E	328.588E	20
21	329.311E	329.248	329.785	---	329.728E	329.618E	329.485	329.135E	---	328.881	328.691	328.588	21
22	329.308E	329.245E	---	329.801	329.724E	329.626	329.480	329.125	---	328.861E	328.688E	328.583E	22
23	329.305E	329.243E	329.784	---	329.721	329.621	329.445E	329.125	---	328.861E	328.686	328.578E	23
24	329.303	329.240E	---	---	329.711	329.621	329.430E	329.125	---	328.861	328.681E	328.573E	24
25	329.297E	329.238	329.773	329.796	329.701	329.617E	329.415	329.125	---	328.858E	328.676	328.568E	25
26	329.292	329.241E	---	329.791	329.701	329.614E	329.410E	329.125	---	328.856	328.674E	328.563E	26
27	329.291E	329.244E	---	329.791	329.701	329.611	329.405	329.125E	---	328.848	328.671E	328.558E	27
28	329.291	329.246	329.771	329.791	329.691E	329.605	329.395	329.125E	---	328.841	328.669E	328.553E	28
29	329.287E		---	329.791	329.681E	329.595	329.380	329.125	---	328.836E	328.667	328.548	29
30	329.284E		---	---	329.671	329.605	329.375E	329.125	---	328.827E	328.660E	329.046E	30
31	329.281		329.859		329.671		329.370E	329.120		328.821		329.544E	31
MEAN	329.324	329.249	---	---	329.735	329.636	329.505	329.208	---	---	328.715	328.650	MEAN
MAX	329.377	329.275	---	---	329.784	329.671	329.615	329.385	---	---	328.818	328.844	MAX
MIN	329.281	329.228	---	---	329.671	329.595	329.370	329.120	---	---	328.680	328.548	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MINIMUM DAILY, 328.548 ON DEC 29

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 10 55 N
LONG 98 06 04 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

MORRIS RIVER NEAR ROSENORT - STATION NO. 05OF020

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.2008	14.2 B	2.17	0.870	0.393	0.188	0	0	---	---	1
2	---	---	0.1758	20.1 B	1.88	0.821	0.379	0.184	0	0	---	---	2
3	---	---	0.1258	25.4 B	1.68	0.804	0.387	0.178	0	0	---	---	3
4	---	---	0.1208	34.6 B	1.51	0.824	0.355	0.184	0.030	0	---	---	4
5	---	---	0.1008	42.0 B	1.44	0.809	0.342	0.163	0.021	0.009	---	---	5
6	---	---	1.50 B	52.1 B	1.32	0.836	0.332	0.127	0.005	0.028	---	---	6
7	---	---	2.50 B	61.1 B	1.18	0.672	0.320	0.112	0	0.040	---	---	7
8	---	---	1.75 B	56.7 B	1.18	0.883	0.310	0.094	0 A	0.057	---	---	8
9	---	---	1.00 B	50.3	1.03	0.834	0.305	0.082	0	0.054	---	---	9
10	---	---	0.7508	44.5	1.05	0.858	0.319	0.070	0	0.077	---	---	10
11	---	---	0.4008	39.8	0.936	0.880	0.333	0.058	0	0.076	---	---	11
12	---	---	0.5008	35.2	0.740	0.852	0.380	0.040	0	0.058	---	---	12
13	---	---	1.10 B	28.7	0.852	0.685	0.400	0.034	0	0.053	---	---	13
14	---	---	1.25 B	23.8	0.879	0.880	0.410	0.018	0	0.058	---	---	14
15	---	---	0.8078	19.8	0.770	0.677	0.389	0.011	0	0.083	---	---	15
16	---	---	0.6008	16.0	0.986	0.849	0.380	0.001	0	0.075	---	---	16
17	---	---	0.3008	10.6	1.05	0.832	0.329	0	0	0.081	---	---	17
18	---	---	0.2008	8.04	0.945	0.835	0.310	0	0	0.090	---	---	18
19	---	---	0.1508	7.17	0.885	0.887	0.313	0	0	0.095	---	---	19
20	---	---	0.1558	6.43	0.821	0.717	0.284	0	0	0.100	---	---	20
21	---	---	0.1808	5.82	0.733	0.806	0.278	0	0	0.102	---	---	21
22	---	---	0.2008	5.78	0.818	1.04	0.272	0	0	0.103	---	---	22
23	---	---	0.2508	5.53	0.956	0.708	0.250	0	0	0.098	---	---	23
24	---	---	0.3008	4.88	0.892	0.526	0.224	0	0	0.085	---	---	24
25	---	---	0.4008	4.18	0.826	0.470	0.209	0	0	0.078	---	---	25
26	---	---	0.4008	3.67	0.883	0.458	0.206	0	0	0.080	---	---	26
27	---	---	0.5008	3.13	0.718	0.444	0.207	0	0	0.108	---	---	27
28	---	---	0.7508	2.82	0.889	0.432	0.196	0	0 A	0.108	---	---	28
29	---		1.00 B	2.56	0.819	0.417	0.191	0	0 A	0.105	---	---	29
30	---		2.00 B	2.32	0.821	0.405	0.212	0	0	0.143	---	---	30
31	---		8.01 B		0.854		0.203	0		0.132		---	31
TOTAL	---	---	28.882	638.20	30.383	18.787	8.386	1.810	0.088	2.158	---	---	TOTAL
MEAN	---	---	0.824	21.3	0.980	0.626	0.303	0.049	0.002	0.070	---	---	MEAN
MAX	---	---	8.01	61.1	2.17	1.04	0.410	0.194	0.030	0.143	---	---	MAX
MIN	---	---	0.100	2.32	0.858	0.405	0.191	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.98
MAXIMUM DAILY, 61.1B ON APR 7
MINIMUM DAILY, 0.08 ON AUG 17
MAXIMUM INSTANTANEOUS,
61.8B AT 09:08 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 29 22 N
LONG 97 26 51 W
DRAINAGE AREA, 2 200 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	811
FEB	---	AUG	130
MAR	2 480	SEP	6.84
APR	55 100	OCT	188
MAY	2 630	NOV	---
JUN	1 620	DEC	---

TOTAL DISCHARGE, 83 000 dam³

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	7.288	6.878	7.188	9.118	27.7	31.6	33.2	30.3	23.0	16.8	12.9	12.7	1
2	7.488	7.148	7.128	8.418	27.8	32.1	34.2	30.2	24.2	17.0	14.9	12.5	2
3	7.648	7.008	7.308	9.288	27.9	29.1	31.6	30.4	19.1	17.1	23.2	12.5	3
4	7.558	6.858	7.558	9.398	28.3	29.1	30.0	29.8	21.5	17.7	16.7	12.3	4
5	7.758	6.888	7.188	9.528	28.3	30.1	33.3	28.4	22.3	13.8	14.2	12.1	5
6	7.538	7.078	7.078	9.618	28.4	29.9	33.5	30.3	18.8	15.6	14.7	12.3	6
7	7.788	6.808	10.1 B	9.458	28.7	31.5	32.9	26.1	22.2	16.7	11.1	11.9	7
8	7.908	6.798	10.3 B	9.388	28.6	30.2	32.1	27.9	20.5	16.9	12.1	12.5	8
9	7.838	6.688	9.388	9.138	28.2	31.9	33.5	28.4	21.4	19.2	15.2	12.1	9
10	7.808	6.808	9.248	8.918	27.3	31.9	32.0	25.9	16.7	15.7	15.0	11.7	10
11	8.918	6.698	9.038	8.958	24.4	32.0	30.1	28.0	20.2	12.1	17.6	11.9	11
12	8.498	7.138	8.858	8.938	26.9	32.3	33.5	28.5	20.3	15.7	18.8	12.0	12
13	8.088	6.838	8.128	9.178	23.2	28.9	32.8	24.9	20.4	17.2	13.8	12.0	13
14	8.048	6.928	8.858	9.288	28.7	27.9	34.8	27.3	21.1	16.4	12.4	11.0	14
15	8.258	7.188	8.788	9.428	28.7	28.1	31.6	25.2	20.3	17.3	14.8	11.88	15
16	7.868	6.848	8.878	9.588	29.9	30.7	32.9	28.8	23.8	13.8	18.4	12.28	16
17	8.188	6.738	8.788	9.708	30.4	30.6	33.8	25.6	23.8	14.8	15.4	11.88	17
18	8.808	6.708	9.028	9.718	31.2	32.6	34.0	25.6	12.8	16.1	13.6	11.48	18
19	8.198	6.928	9.038	9.858	29.4	31.9	33.4	22.0	15.4	15.8	12.6	11.58	19
20	8.018	7.188	9.138	10.1 B	32.2	28.7	32.8	29.6	13.6	18.1	10.2	11.48	20
21	8.058	7.258	9.118	11.4 B	29.9	29.8	33.1	25.4	13.8	15.8	9.54	11.38	21
22	7.738	7.228	9.218	14.3 B	32.1	29.1	30.8	25.9	17.6	16.7	12.4	11.28	22
23	7.398	7.058	9.208	18.0 B	31.4	29.7	30.5	25.9	16.8	15.6	12.5	10.98	23
24	7.308	7.108	9.388	20.6 B	32.4	30.7	32.2	26.2	17.8	13.6	11.8	11.28	24
25	7.858	7.348	8.628	23.2 B	32.9	31.2	33.0	25.7	18.0	14.8	13.9	11.48	25
26	7.648	7.028	8.908	25.5	33.9	30.4	33.5	25.9	18.4	15.5	12.8	11.18	26
27	7.678	6.588	9.158	26.1	31.7	32.3	31.0	26.5	18.3	13.7	12.6	10.98	27
28	7.278	7.098	9.158	26.4	28.6	33.0	30.0	25.7	14.2	13.8	12.4	10.68	28
29	7.118		9.218	27.0	28.9	33.7	29.8	25.3	17.3	15.7	12.5	10.78	29
30	7.208		9.158	27.4	29.0	32.2	29.6	24.0	18.9	14.8	13.3	10.58	30
31	7.488		8.628		30.7		29.4	24.2		14.9		10.38	31
TOTAL	241.48	194.30	270.39	407.89	908.3	923.2	988.7	833.9	571.9	490.8	422.64	359.4	TOTAL
MEAN	7.79	6.94	8.72	13.6	29.3	30.7	32.2	26.9	19.1	15.8	14.1	11.6	MEAN
MAX	8.91	7.34	10.3	27.4	33.9	33.7	34.8	30.4	24.2	19.3	23.2	12.7	MAX
MIN	7.11	6.58	7.07	8.91	23.2	28.1	29.4	22.0	12.8	12.1	9.54	10.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.1
MAXIMUM DAILY, 34.8 ON JUL 14
MINIMUM DAILY, 6.588 ON FEB 27
MAXIMUM INSTANTANEOUS,
38.2 AT 05:48 CST ON JUL 9

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 27 00 N
LONG 99 58 00 W
DRAINAGE AREA, 6 700 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	20 900	JUL	86 300
FEB	16 800	AUG	72 000
MAR	23 400	SEP	49 400
APR	35 200	OCT	42 400
MAY	78 500	NOV	36 500
JUN	79 700	DEC	31 100

TOTAL DISCHARGE, 572 000 dam³

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05OB021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.6488	0.113	0.008	0.047	0	0	0	---	---	1
2	---	---	0 B	0.8348	0.143	0.009	0.042	0	0	0	---	---	2
3	---	---	0 B	1.02 B	0.133	0.010	0.038	0.045	0	0	---	---	3
4	---	---	0 B	1.20 B	0.116	0.008	0.032	0.047	0	0	---	---	4
5	---	---	0 B	1.38 B	0.097	0.007	0.027	0.028	0	0	---	---	5
6	---	---	0 B	2.58 B	0.075	0.002	0.024	0.017	0	0	---	---	6
7	---	---	0 B	4.38 B	0.067	0	0.021	0.008	0	0	---	---	7
8	---	---	0 B	3.68 B	0.058	0	0.018	0.002	0	0	---	---	8
9	---	---	0.0278	2.98 B	0.048	0	0.017	0	0	0	---	---	9
10	---	---	0.0088	2.38 B	0.043	0	0.015	0	0	0	---	---	10
11	---	---	0.5428	1.58 B	0.032	0	0.012	0	0	0	---	---	11
12	---	---	1.74 B	0.6858	0.378	0	0.010	0	0	0	---	---	12
13	---	---	1.53 B	0.8138	0.431	0	0.010	0	0	0	---	---	13
14	---	---	1.34 B	0.7418	0.288	0	0.010	0	0	0	---	---	14
15	---	---	1.24 B	0.6898	0.133	0	0.009	0	0	0	---	---	15
16	---	---	1.04 B	0.5978	0.081	0	0.008	0	0	0	---	---	16
17	---	---	0.9318	0.5258	0.085	0	0.004	0	0	0	---	---	17
18	---	---	0.8368	0.457E	0.050	0	0	0	0	0	---	---	18
19	---	---	0.6898	0.380E	0.040	0	0	0	0	0	---	---	19
20	---	---	0.5898	0.307E	0.034	0	0	0	0	0	---	---	20
21	---	---	0.5048	0.236A	0.028	0	0	0	0	0	---	---	21
22	---	---	0.4328	0.228	0.023	0.088	0	0	0	0	---	---	22
23	---	---	0.3778	0.212	0.020	0.097	0	0	0	0	---	---	23
24	---	---	0.3758	0.308	0.018	0.102	0	0	0	0	---	---	24
25	---	---	0.3938	0.368	0.016	0.081	0	0	0	0	---	---	25
26	---	---	0.4048	0.288	0.015	0.084	0	0	0	0	---	---	26
27	---	---	0.4108	0.187	0.013	0.104	0	0	0	0	---	---	27
28	---	---	0.4388	0.173	0.013	0.093	0	0	0	0	---	---	28
29	---		0.4888	0.150	0.011	0.075	0	0	0	0	---	---	29
30	---		0.5348	0.112	0.010	0.083	0	0	0	0	---	---	30
31	---		0.5978		0.010		0	0		0		---	31
TOTAL	---	---	15.581	30.507	2.502	0.821	0.343	0.148	0	0	---	---	TOTAL
MEAN	---	---	0.502	1.02	0.084	0.027	0.011	0.005	0	0	---	---	MEAN
MAX	---	---	1.74	4.38	0.431	0.104	0.047	0.047	0	0	---	---	MAX
MIN	---	---	0	0.112	0.010	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.204
MAXIMUM DAILY, 4.38B ON APR 7
MINIMUM DAILY, 0E ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 00 N
LONG 98 27 15 W
DRAINAGE AREA, 262 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	28.6
FEB	---	AUG	12.8
MAR	1 340	SEP	0
APR	2 640	OCT	0
MAY	225	NOV	---
JUN	70.9	DEC	---

TOTAL DISCHARGE, 4 320 dam³

NEEPAWA CREEK NEAR NEEPAWA - STATION NO. 05LL009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.014B	0.023B	1.02	0.228	0.091	0.003E	0	0.036	---	---	1
2	---	---	0.014B	0.019B	0.802	0.229	0.154	0 E	0	0.052	---	---	2
3	---	---	0.014B	0.016B	0.686	0.363	0.199	0 E	0	0.036	---	---	3
4	---	---	0.014B	0.014B	0.543	0.376	0.168	0 E	0	0.032	---	---	4
5	---	---	0.014B	0.005B	0.443	0.360	0.156	0 A	0	0.037	---	---	5
6	---	---	0.014B	0 B	0.359	0.358	0.106	0	0	0.032	---	---	6
7	---	---	0.014B	0 B	0.294	0.325	0.054	0	0	0.022	---	---	7
8	---	---	0.014B	0 B	0.246	0.279	0.018	0	0	0.018	---	---	8
9	---	---	0.014B	0.150B	0.216	0.246	0.081	0	0	0.016	---	---	9
10	---	---	0.014B	0.163B	0.189	0.263	0.098E	0	0	0.108	---	---	10
11	---	---	0.014B	0.477B	0.175	0.219	0.232E	0	0	0.205	---	---	11
12	---	---	0.014B	0.833B	0.235	0.187	0.158E	0	0	0.242	---	---	12
13	---	---	0.014B	0.894B	0.265	0.257	0.102E	0	0	0.276	---	---	13
14	---	---	0.014B	0.917B	0.272	0.285	0.068E	0	0	0.284	---	---	14
15	---	---	0.014B	0.954B	0.268	0.216	0.072A	0	0	0.277	---	---	15
16	---	---	0.014B	0.886B	0.326	0.189	0.684	0	0	0.277	---	---	16
17	---	---	0.014B	1.02 B	0.365	0.155	1.02	0	0.023	0.285	---	---	17
18	---	---	0.014B	3.40 B	0.396	0.113	0.613	0	0.011	0.244	---	---	18
19	---	---	0.014B	5.53 B	0.490	0.095	0.531E	0	0.004	0.224	---	---	19
20	---	---	0.014B	8.18 B	0.577	0.071	0.443E	0	0	0.216	---	---	20
21	---	---	0.014B	16.9 B	0.570	0.057	0.351E	0	0.003	0.219	---	---	21
22	---	---	0.014B	12.6 E	0.538	0.088	0.264E	0	0.010	0.223	---	---	22
23	---	---	0.014B	12.7 E	0.495	0.116	0.191E	0	0.015	0.210	---	---	23
24	---	---	0.014B	12.3 E	0.445	0.083	0.139E	0	0.021	0.187	---	---	24
25	---	---	0.014B	9.45 E	0.385	0.063	0.092E	0	0.024	0.161	---	---	25
26	---	---	0.014B	6.44 A	0.374	0.050	0.063E	0	0.018	0.150	---	---	26
27	---	---	0.014B	4.19	0.350	0.033	0.037E	0	0.014	0.133	---	---	27
28	---	---	0.014B	2.69	0.324	0.018	0.018E	0	0.008	0.127	---	---	28
29	---		0.014B	1.84	0.290	0.045	0.009E	0	0.003	0.115	---	---	29
30	---		0.016B	1.36	0.282	0.089	0.015E	0	0.011	0.099	---	---	30
31	---		0.022B		0.252		0.009E	0		0.088		---	31
TOTAL	---	---	0.444	104.051	12.452	5.431	5.184	0.003	0.163	4.643	---	---	TOTAL
MEAN	---	---	0.014	3.47	0.402	0.181	0.159	0	0.005	0.150	---	---	MEAN
MAX	---	---	0.022	16.9	1.02	0.376	1.02	0.003	0.024	0.284	---	---	MAX
MIN	---	---	0.014	0	0.175	0.018	0.009	0	0	0.016	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.544
MAXIMUM DAILY, 16.9B ON APR 21
MINIMUM DAILY, 0B ON APR 5

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 13 56 N
LONG 99 34 00 W
DRAINAGE AREA, 185 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	534
FEB	---	AUG	0.26
MAR	38.4	SEP	16.1
APR	6 890	OCT	401
MAY	1 080	NOV	---
JUN	469	DEC	---

TOTAL DISCHARGE, 11 500 dam³

NEEPAWA RESERVOIR NEAR NEEPAWA - STATION NO 05LL010

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	359.005	358.953	358.949	359.082	359.281	359.081	359.053E	358.970	358.719	358.529	358.686	358.821	1
2	359.004	358.951	358.953	359.078	359.220	359.076	359.066E	358.967	358.712	358.542	358.688	358.825	2
3	359.002	358.950	358.951	359.075	359.186	359.073	359.058E	358.961	358.695	358.594	358.693	358.828	3
4	359.000	358.959	358.952	359.074	359.167	359.072	359.054E	358.958	358.687	358.585	358.701	358.830	4
5	358.999	358.956	358.971	359.072	359.149	359.072	359.063E	358.952	358.678	358.575	358.707	358.831	5
6	358.999	358.953	358.951	359.073	359.134	359.069	359.052E	358.947	358.664	358.583	358.712	358.830	6
7	358.996	358.950	358.004	359.077	359.123	359.067	359.043E	358.935	358.658	358.597	358.717	358.829	7
8	358.956	358.947	359.012	359.084	359.111	359.067	359.041E	358.929	358.650	358.614	358.720	358.826	8
9	358.993	358.947	359.012	359.137	359.105	359.065	359.039E	358.925	358.641	358.623	358.727	358.824	9
10	358.994	358.947	359.008	359.229	359.097	359.059	359.047E	358.914	358.619	358.628	358.734	358.822	10
11	358.994	358.948	359.010	359.283	359.088	359.058	359.056E	358.903	358.610	358.630	358.738	358.820	11
12	358.994	358.948	359.011	359.346	359.094	359.052	359.069E	358.892	358.606	358.631	358.741	358.817	12
13	358.991	358.945	359.017	359.352	359.100	359.048	359.073A	358.871	358.602	358.633	358.743	358.815	13
14	358.990	358.945	359.019	359.321	359.101	359.048	359.075	358.861	358.594	358.636	358.744	358.813	14
15	358.988	358.945	359.019	359.310	359.102	359.050	359.067	358.854	358.590	358.638	358.745	358.810	15
16	358.984	358.945	359.020	359.323	359.107	359.053	359.058	358.843	358.591	358.639	358.746	358.807	16
17	358.983	358.944	359.024	359.366	359.105	359.054	359.058	358.830	358.587	358.640	358.753	358.805	17
18	358.982	358.944	359.027	359.368	359.103	359.050	359.065	358.817	358.586	358.642	358.759	358.802	18
19	358.981	358.945	359.029	359.383	359.104	359.044	359.060	358.794	358.582	358.643	358.766	358.799	19
20	358.980	358.945	359.031	359.457	359.108	359.041	359.055	358.788	358.557	358.644	358.772	358.797	20
21	358.977	358.948	359.033	359.595	359.101	359.037	359.047	358.785	358.554	358.645	358.778	358.794	21
22	358.976	358.948	359.034	359.641	359.097	359.050	359.037	358.778	358.553	358.649	358.784	358.792	22
23	358.976	358.948	359.036	359.619	359.095	359.056A	359.027	358.789	358.551	358.652	358.790	358.790	23
24	358.974	358.948	359.038	359.552	359.095	359.058E	359.027	358.784	358.544	358.656	358.795	358.787	24
25	358.975	358.948	359.041	359.517	359.092	359.061E	359.018	358.756	358.539	358.659	358.801	358.784	25
26	358.974	358.949	359.045	359.486	359.089	359.065E	359.009	358.749	358.536	358.662	358.804	358.781	26
27	358.971	358.949	359.045	359.407	359.082	359.065E	358.998	358.745	358.533	358.665	358.806	358.779	27
28	358.970	358.949	359.046	359.354	359.075	359.062E	358.985	358.743	358.526	358.668	358.808	358.778	28
29	358.968		359.050	359.311	359.071	359.052E	358.974	358.742	358.523	358.672	358.812	358.774	29
30	358.968		359.052	359.298	359.070	359.054E	358.976	358.739	358.534	358.676	358.816	358.772	30
31	358.964		359.073		359.078		358.973	358.733		358.681		358.769	31
MEAN	358.985	358.949	359.017	359.308	359.113	359.059	359.041	358.846	358.599	358.628	358.753	358.805	MEAN
MAX	359.005	358.953	359.073	359.641	359.281	359.081	359.075	358.970	358.719	358.681	358.816	358.831	MAX
MIN	358.964	358.944	358.949	359.072	359.070	359.037	358.973	358.733	358.523	358.529	358.686	358.769	MIN

WATER LEVELS IN METRES

MEAN, 358.935
MAXIMUM DAILY, 359.641 ON APR 22
MINIMUM DAILY, 358.523 ON SEP 29
MAXIMUM INSTANTANEOUS,
359.646 AT 22:12 CST ON APR 22

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 12 46 N
LONG 99 26 36 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1960

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO 05UB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2008	1938	1888	1828	3558	470	508	571	536	452	384	2178	1
2	1998	1938	1888	1818	3728	448	541	604	532	451	312	2178	2
3	1998	1938	1878	1818	391	403	536	621	514	413	381	2158	3
4	1998	1938	1878	1818	401	451	463	603	503	446	492	2158	4
5	1998	1938	1878	1808	409	475	507	570	499	449	499	2158	5
6	1998	1928	1878	1808	408	482	536	572	455	389	406	2148	6
7	1998	1928	1878	1808	413	477	534	573	482	407	367	2148	7
8	1998	1928	1868	1808	429	503	524	509	517	435	309	2128	8
9	1988	1928	1868	1808	451	524	547	551	478	472	324	2128	9
10	1988	1928	1868	1808	428	556	555	538	487	484	337	2118	10
11	1988	1918	1868	1798	417	550	541	535	438	396	348	2108	11
12	1988	1918	1868	1798	412	565	536	570	480	367	371	2108	12
13	1978	1918	1858	1798	399	553	588	574	458	441	400	2108	13
14	1978	1918	1858	1798	414	532	586	559	468	431	338	2108	14
15	1978	1918	1858	1798	437	455	569	565	475	433	329	2108	15
16	1978	1908	1858	1788	484	478	614	532	491	435	350	2098	16
17	1968	1908	1858	1808	474	516	588	559	574	367	419	2098	17
18	1968	1908	1848	1818	474	542	601	550	575	353	420	2088	18
19	1968	1908	1848	1828	454	582	596	524	471	403	382	2088	19
20	1968	1908	1848	1938	470	580	579	458	383	456	327	2068	20
21	1968	1898	1848	1928	475	580	586	516	309	477	234	2088	21
22	1958	1898	1848	2058	472	551	599	601	338	446	2288	2078	22
23	1958	1898	1838	2128	475	544	544	529	427	472	2288	2078	23
24	1958	1898	1838	2388	477	545	560	532	471	435	2259	2078	24
25	1958	1898	1838	2538	490	521	578	537	459	408	2228	2068	25
26	1958	1888	1838	2728	497	470	581	536	463	402	2218	2068	26
27	1948	1888	1838	2878	509	520	585	534	500	405	2198	2068	27
28	1948	1888	1828	3048	473	539	589	532	472	325	2188	2068	28
29	1948		1828	3218	443	553	551	528	435	380	2188	2058	29
30	1948		1828	3388	434	542	560	526	451	383	2178	2058	30
31	1948		1828		455		584	544		398		2048	31
TOTAL	6 098	5 336	5 729	6 225	13 678	15 431	17 300	16 953	14 202	13 023	9 704	6 501	TOTAL
MEAN	197	191	185	208	441	514	558	547	473	420	323	210	MEAN
MAX	200	193	188	338	509	565	614	621	614	484	499	217	MAX
MIN	194	188	182	179	355	403	463	458	309	325	217	204	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 357
MAXIMUM DAILY, 621 ON AUG 3
MINIMUM DAILY, 1788 ON APR 11

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 14 39 N
LONG 97 35 27 W

B - ICE CONDITIONS

REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	527 000	JUL	1 490 000
FEB	461 000	AUG	1 480 000
MAR	495 000	SEP	1 230 000
APR	538 000	OCT	1 130 000
MAY	1 180 000	NOV	838 000
JUN	1 330 000	DEC	562 000

TOTAL DISCHARGE, 11 200 000 dam³

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO 05UB009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2 000	1 920	1 900	1 920	1 550	1 010	908	1 140	1 190	1 270	2 080	1 840	1
2	2 000	1 870	1 900	1 910	1 580	1 010	890	1 140	1 190	1 280	2 140	1 540	2
3	1 980	1 920	1 900	1 900	1 540	1 010	884	1 130	1 150	1 310	2 180	1 840	3
4	2 000	1 950	1 900	1 900	1 500	1 040	924	1 130	1 140	1 300	2 180	1 880	4
5	1 990	1 950	1 900	1 900	1 460	1 020	933	1 140	1 130	1 290	2 180	1 880	5
6	2 000	1 950	1 900	1 910	1 450	940	927	1 130	1 150	1 310	2 180	1 750	6
7	2 010	1 950	1 910	1 910	1 450	880	1 030	1 140	1 180	1 500	2 180	1 810	7
8	2 010	1 950	1 910	1 920	1 440	898	1 130	1 140	1 200	1 600	2 180	1 820	8
9	2 010	1 920	1 890	1 920	1 410	914	1 150	1 130	1 190	1 590	2 180	1 820	9
10	2 010	1 950	1 890	1 930	1 390	875	1 210	1 140	1 190	1 590	2 190	1 850	10
11	1 990	1 940	1 880	1 930	1 370	872	1 250	1 120	1 190	1 590	2 180	1 850	11
12	1 990	1 920	1 900	1 950	1 320	882	1 210	1 130	1 230	1 590	2 190	1 840	12
13	1 990	1 920	1 910	1 940	1 310	884	1 190	1 130	1 250	1 580	2 200	1 820	13
14	1 990	1 910	1 900	1 930	1 300	871	1 190	1 130	1 250	1 770	2 190	1 830	14
15	1 990	1 920	1 900	1 980	1 290	857	1 200	1 160	1 250	1 870	2 180	1 840	15
16	1 990	1 910	1 890	1 950	1 280	850	1 170	1 160	1 270	1 870	2 180	1 850	16
17	1 980	1 920	1 890	1 980	1 260	838	1 200	1 180	1 240	1 870	2 180	1 840	17
18	1 970	1 900	1 890	1 880	1 230	813	1 190	1 150	1 240	1 870	2 200	1 840	18
19	1 970	1 900	1 890	1 810	1 190	832	1 190	1 170	1 280	1 870	2 210	1 850	19
20	1 970	1 900	1 870	1 790	1 180	824	1 200	1 180	1 280	1 870	2 210	1 840	20
21	1 980	1 900	1 880	1 740	1 170	891	1 180	1 170	1 250	2 080	2 140	1 830	21
22	1 970	1 910	1 880	1 710	1 170	820	1 200	1 130	1 250	2 150	2 170	1 830	22
23	1 950	1 910	1 880	1 710	1 180	848	1 180	1 150	1 240	2 150	2 130	1 820	23
24	1 940	1 910	1 900	1 720	1 110	902	1 190	1 180	1 250	2 150	2 080	1 820	24
25	1 920	1 910	1 910	1 710	1 090	923	1 150	1 140	1 250	2 150	2 010	1 820	25
26	1 900	1 910	1 900	1 690	1 040	900	1 120	1 170	1 250	2 150	1 880	1 830	26
27	1 890	1 900	1 900	1 680	1 040	882	1 110	1 180	1 270	2 150	1 780	1 820	27
28	1 890	1 900	1 900	1 810	1 030	881	1 110	1 170	1 280	2 140	1 730	1 820	28
29	1 890		1 910	1 800	1 020	903	1 110	1 190	1 280	2 100	1 710	1 810	29
30	1 900		1 910	1 580	1 020	904	1 100	1 190	1 270	2 150	1 730	1 810	30
31	1 920		1 910		1 020		1 110	1 190		2 120		1 800	31
TOTAL	61 010	53 730	58 800	54 990	38 400	27 955	34 514	35 650	36 740	55 270	62 890	55 640	TOTAL
MEAN	1 970	1 920	1 900	1 830	1 270	932	1 110	1 150	1 220	1 780	2 100	1 790	MEAN
MAX	2 010	1 950	1 910	1 980	1 590	1 040	1 250	1 190	1 280	2 150	2 210	1 850	MAX
MIN	1 890	1 870	1 870	1 580	1 020	872	884	1 120	1 130	1 270	1 710	1 540	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1 580
MAXIMUM DAILY, 2 210 ON NOV 19
MINIMUM DAILY, 872 ON JUN 11

DATA CONTRIBUTED BY -
MANITOBA HYDRO

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 54 29 53 N
LONG 98 02 53 W

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	5 270 000	JUL	2 980 000
FEB	4 840 000	AUG	3 080 000
MAR	5 080 000	SEP	3 170 000
APR	4 750 000	OCT	4 780 000
MAY	3 400 000	NOV	5 430 000
JUN	2 420 000	DEC	4 810 000

TOTAL DISCHARGE, 49 800 000 dam³

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2 720B	2 590B	2 580B	2 540B	2 350	1 950	1 890	1 980	1 880	1 910	2 770	2 890B	1
2	2 720B	2 590B	2 580B	2 540B	2 340	1 980	1 840	1 950	1 890	1 910	2 810	2 870B	2
3	2 720B	2 590B	2 580B	2 540B	2 320	1 950	1 820	1 870	1 850	1 940	2 770	2 860B	3
4	2 710B	2 590B	2 580B	2 540B	2 300	1 890	1 840	1 950	1 860	1 930	2 750	2 850B	4
5	2 700B	2 600B	2 570B	2 540B	2 280	1 830	1 800	1 950	1 890	1 910	2 750	2 830B	5
6	2 700B	2 600B	2 570B	2 540B	2 250	1 820	1 580	1 940	1 900	1 900	2 830	2 820B	6
7	2 700B	2 600E	2 570B	2 540	2 250	1 800	1 610	1 920	1 870	1 920	2 930	2 800B	7
8	2 690B	2 600B	2 570D	2 550	2 230	1 770	1 580	1 920	1 830	1 960	2 930	2 580B	8
9	2 690B	2 600B	2 570B	2 580	2 220	1 750	1 580	1 920	1 850	2 010	2 870	2 560B	9
10	2 690B	2 600B	2 570B	2 580	2 250	1 730	1 710	1 910	1 910	2 030	2 870	2 530B	10
11	2 700B	2 600B	2 570B	2 570	2 280	1 730	1 800	1 910	1 890	2 080	2 880	2 510B	11
12	2 700B	2 600B	2 560B	2 580	2 230	1 720	1 840	1 900	1 880	2 100	2 850	2 490B	12
13	2 700B	2 600B	2 560B	2 580	2 200	1 730	1 840	1 880	1 850	2 080	2 880	2 480B	13
14	2 700B	2 600B	2 560B	2 590	2 180	1 720	1 860	1 880	1 850	2 120	2 880	2 440B	14
15	2 700B	2 600B	2 580B	2 580	2 160	1 740	1 820	1 890	1 870	2 190	2 880	2 440B	15
16	2 700B	2 600B	2 580B	2 800	2 110	1 730	1 880	1 900	1 870	2 210	2 870	2 430B	16
17	2 700B	2 600B	2 580B	2 800	2 100	1 690	1 880	1 900	1 900	2 220	2 880	2 430B	17
18	2 700B	2 600B	2 580B	2 800	2 110	1 670	1 880	1 900	1 920	2 280	2 880B	2 440B	18
19	2 690B	2 600B	2 550B	2 580	2 110	1 680	2 010	1 920	1 920	2 300	2 880B	2 440B	19
20	2 680B	2 590B	2 550B	2 550	2 090	1 710	2 020	1 900	1 940	2 330	2 880B	2 440B	20
21	2 680B	2 590B	2 550B	2 520	2 090	1 710	2 030	1 890	1 920	2 380	2 860B	2 440B	21
22	2 670B	2 590B	2 550B	2 500	2 090	1 710	2 030	1 870	1 890	2 470	2 850B	2 450B	22
23	2 660B	2 590B	2 550B	2 470	2 090	1 720	2 030	1 880	1 860	2 530	2 840B	2 480B	23
24	2 650B	2 590B	2 550B	2 450	2 080A	1 700	2 020	1 870	1 850	2 580	2 830B	2 480B	24
25	2 640B	2 580B	2 550B	2 440	2 070A	1 710	2 020	1 870	1 870	2 620	2 820B	2 480B	25
26	2 630B	2 580B	2 550B	2 430	2 060	1 740	2 020	1 880	1 880	2 680	2 780B	2 480B	26
27	2 620B	2 580B	2 540B	2 420	2 050	1 670	1 880	1 890	1 900	2 670	2 770B	2 460B	27
28	2 610B	2 580B	2 540B	2 400	2 030	1 640	1 860	1 840	1 910	2 700	2 750B	2 450B	28
29	2 600B		2 540B	2 380	2 020	1 640	2 000	1 880	1 880	2 710	2 730B	2 450B	29
30	2 590B		2 540B	2 380	2 000	1 650	1 990	1 890	1 900	2 730	2 710B	2 450B	30
31	2 590B		2 540B		1 970		1 970	1 890		2 740		2 440B	31
TOTAL	82 980	72 630	79 330	75 880	66 880	52 450	57 880	59 040	58 490	70 110	84 890	77 890	TOTAL
MEAN	2 680	2 590	2 560	2 520	2 180	1 750	1 860	1 900	1 880	2 260	2 830	2 510	MEAN
MAX	2 730	2 600	2 580	2 800	2 350	1 950	2 030	1 970	1 940	2 740	2 930	2 890	MAX
MIN	2 590	2 580	2 540	2 380	1 970	1 640	1 580	1 880	1 830	1 900	2 710	2 430	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2 290
MAXIMUM DAILY, 2 930 ON NOV 7
MINIMUM DAILY, 1 580 ON JUL 6
MAXIMUM INSTANTANEOUS,
3 000 AT 21:40 CST ON NOV 7

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 46 30 N
LONG 97 55 50 W
DRAINAGE AREA, 1 000 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	7 170 000	JUL	4 980 000
FEB	6 280 000	AUG	5 100 000
MAR	6 850 000	SEP	4 880 000
APR	6 540 000	OCT	6 060 000
MAY	5 760 000	NOV	7 330 000
JUN	4 530 000	DEC	6 710 000

TOTAL DISCHARGE, 72 200 000 dam³

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2 220	2 180	2 180	2 300	2 370	1 850	1 810	1 750	1 880	1 840	2 050	2 200	1
2	2 220	2 200	2 250	2 300	2 370	1 820	1 820	1 750	1 880	1 840	2 030	2 180	2
3	2 220	2 350	2 280	2 280	2 350	1 780	1 810	1 720	1 880	1 790	2 080	2 130	3
4	2 180	2 450	2 280	2 300	1 520	1 840	1 810	1 740	1 890	1 760	2 150	2 070	4
5	2 160	2 450	2 280	2 290	1 520	1 880	1 820	1 750	1 850	1 800	2 180	2 080	5
6	2 170	2 450	2 270	2 280	2 370	1 870	1 810	1 750	1 810	1 810	2 180	2 080	6
7	2 170	2 390	2 280	2 300	2 370	1 870	1 810	1 750	1 870	1 810	2 180	2 080	7
8	2 170	2 320	2 290	2 290	2 380	1 820	1 810	1 710	1 880	1 810	2 220	2 140	8
9	2 170	2 320	2 290	2 290	2 380	1 830	1 810	1 880	1 890	1 780	2 240	2 180	9
10	2 170	2 230	2 280	2 290	2 370	1 830	1 870	1 730	1 850	1 840	2 340	2 180	10
11	2 170	2 190	2 260	2 280	2 280	1 820	1 880	1 730	1 830	1 880	2 380	2 180	11
12	2 180	2 190	2 260	2 340	2 280	1 830	1 720	1 720	1 880	2 020	2 380	2 210	12
13	2 180	2 190	2 260	2 380	2 190	1 890	1 780	1 740	1 890	2 040	2 380	2 210	13
14	2 200	2 190	2 280	2 400	2 180	1 880	1 870	1 740	1 700	2 040	2 380	2 220	14
15	2 200	2 190	2 280	2 380	2 180	1 800	1 810	1 710	1 890	2 020	2 410	2 250	15
16	2 200	2 180	2 250	2 380	2 180	1 780	1 810	1 700	1 700	2 040	2 480	2 270	16
17	2 180	2 180	2 270	2 380	1 880	1 780	1 810	1 700	1 700	2 010	2 470	2 270	17
18	2 180	2 200	2 270	2 380	1 800	1 800	1 810	1 690	1 780	2 020	2 480	2 270	18
19	2 180	2 180	2 270	2 350	1 800	1 800	1 810	1 700	1 780	2 100	2 470	2 270	19
20	2 200	2 200	2 270	2 350	1 800	1 800	1 810	1 700	1 780	2 180	2 470	2 270	20
21	2 200	2 180	2 300	2 350	1 800	1 730	1 810	1 700	1 780	2 180	2 460	2 270	21
22	2 200	2 200	2 320	2 380	1 800	1 680	1 810	1 700	1 830	2 180	2 420	2 270	22
23	2 200	2 180	2 310	2 390	1 810	1 680	1 820	1 700	1 880	2 180	2 420	2 270	23
24	2 180	2 180	2 310	2 380	1 540	1 680	1 820	1 710	1 900	2 180	2 380	2 270	24
25	2 200	2 180	2 280	2 380	1 550	1 810	1 840	1 700	1 900	2 180	2 350	2 270	25
26	2 200	2 180	2 420	2 370	1 550	1 820	1 880	1 700	1 900	2 080	2 380	2 270	26
27	2 200	2 180	2 420	2 380	1 550	1 820	1 740	1 700	1 800	2 040	2 380	2 270	27
28	2 200	2 180	2 410	2 380	1 580	1 820	1 770	1 700	1 800	2 040	2 310	2 270	28
29	2 200		2 320	2 380	1 700	1 820	1 780	1 700	1 800	2 050	2 230	2 310	29
30	2 200		2 300	2 380	1 720	1 820	1 780	1 710	1 800	2 050	2 200	2 270	30
31	2 200		2 300		1 810		1 780	1 880		2 040		2 270	31
TOTAL	67 970	62 810	71 220	70 180	59 730	53 480	51 220	53 180	52 670	61 750	69 470	68 710	TOTAL
MEAN	2 190	2 240	2 300	2 340	1 930	1 780	1 850	1 710	1 750	1 990	2 320	2 220	MEAN
MAX	2 220	2 450	2 420	2 400	2 380	1 930	1 770	1 750	1 900	2 180	2 480	2 310	MAX
MIN	2 160	2 180	2 190	2 280	1 520	1 810	1 810	1 880	1 810	1 780	2 030	2 070	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2 030
MAXIMUM DAILY, 2 480 ON NOV 18
MINIMUM DAILY, 1 520 ON MAY 4

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 56 02 30 N
LONG 96 31 30 W
DRAINAGE AREA, 1 010 000 km²

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	6 070 000	JUL	4 430 000
FEB	5 620 000	AUG	4 580 000
MAR	6 150 000	SEP	4 540 000
APR	6 060 000	OCT	5 340 000
MAY	5 180 000	NOV	6 000 000
JUN	4 520 000	DEC	5 940 000

TOTAL DISCHARGE, 64 100 000 dam³

DATA CONTRIBUTED BY -
MANITOBA HYDRO

NELSON RIVER AT NORWAY HOUSE - STATION NO. 05UB001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	216.910	216.917	216.934	217.027	217.273	217.450	217.539	217.681	217.607	217.410	217.207	216.926	1
2	216.912	216.906	216.942	217.037	217.277	217.401	217.515	217.757	217.593	217.407	217.083	216.909	2
3	216.906	216.908	216.939	217.044	217.270	217.297	217.603	217.784	217.778	217.320	217.245	216.970	3
4	216.908	216.911	216.945	217.049	217.292	217.407	217.434	217.753	217.526	217.395	217.502	216.960	4
5	216.918	216.914	216.943	217.059	217.309	217.472	217.525	217.680	217.517	217.402	217.518	216.957	5
6	216.920	216.921	216.926	217.068	217.310	217.432	217.502	217.685	217.417	217.284	217.303	216.965	6
7	216.914	216.924	216.952	217.072	217.320	217.466	217.598	217.686	217.478	217.306	217.214	216.968A	7
8	216.915	216.910	216.971	217.077	217.356	217.526	217.574	217.541	217.556	217.370	217.078	---	8
9	216.924	216.913	216.980	217.068	217.407	217.575	217.527	217.638	217.472	217.455	217.113	---	9
10	216.923	216.925	216.991	217.080	217.353	217.549	217.547	217.608	217.489	217.505	217.144	---	10
11	216.915	216.929	217.000	217.061	217.326	217.534	217.615	217.600	217.376	217.280	217.169	---	11
12	216.917	216.926	217.003	217.064	217.317	217.589	217.603	217.660	217.428	217.259	217.221	---	12
13	216.916	216.935	216.998	217.072	217.287	217.641	217.676	217.685	217.424	217.384	217.248	---	13
14	216.911	216.930	216.984	217.077	217.330	217.594	217.572	217.655	217.447	217.380	217.185	---	14
15	216.917	216.933	216.986	217.087	217.376	217.415	217.578	217.688	217.462	217.388	217.124	---	15
16	216.922	216.941	216.997	217.094	217.436	217.470	217.780	217.594	217.500	217.368	217.173	---	16
17	216.908	216.930	216.997	217.109	217.480	217.558	217.723	217.656	217.689	217.212	217.333	---	17
18	216.917	216.922	216.992	217.121	217.481	217.617	217.749	217.635	217.692	217.182	217.335	---	18
19	216.920	216.918	216.995	217.130	217.413	217.662	217.739	217.578	217.453	217.285	217.247	---	19
20	216.917	216.928	217.000	217.139	217.450	217.686	217.700	217.424	217.205	217.418	217.118	---	20
21	216.917	216.936	217.003	217.142	217.452	217.688	217.670	217.557	217.077	217.467	216.898	---	21
22	216.921	216.947	217.010	217.148	217.456	217.838	217.744	217.521	217.142	217.396	216.938	---	22
23	216.918	216.946	217.012	217.161	217.482	217.821	217.820	217.587	217.351	217.458	217.035	---	23
24	216.905	216.940	217.021	217.177	217.468	217.824	217.658	217.594	217.452	217.371	216.912	---	24
25	216.906	216.950	217.034	217.186	217.498	217.587	217.693	217.605	217.426	217.309	216.786	---	25
26	216.915	216.955	217.030	217.187	217.513	217.450	217.728	217.603	217.433	217.295	216.816	216.945A	26
27	216.915	216.927	217.033	217.207	217.541	217.567	217.715	217.589	217.519	217.302	216.891	216.943	27
28	216.915	216.919	217.041	217.229	217.458	217.610	217.745	217.594	217.455	217.114	216.931	216.939	28
29	216.906		217.047	217.246	217.389	217.641	217.637	217.585	217.370	217.187	216.886	216.946	29
30	216.903		217.052	217.258	217.368	217.617	217.657	217.560	217.406	217.251	216.880	216.945	30
31	216.907		217.043		217.418		217.658	217.620		217.284		216.930	31
MEAN	216.914	216.927	216.994	217.117	217.389	217.553	217.653	217.627	217.456	217.336	217.119	---	MEAN
MAX	216.924	216.955	217.052	217.258	217.541	217.689	217.780	217.784	217.778	217.506	217.518	---	MAX
MIN	216.903	216.908	216.926	217.027	217.270	217.297	217.434	217.424	217.077	217.114	216.786	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 217.784 ON AUG 3
MINIMUM DAILY, 216.786 ON NOV 25
MAXIMUM INSTANTANEOUS,
217.801 AT 22:21 CST ON AUG 3

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 00 00 N
LONG 97 48 00 W

A - MANUAL GAUGE

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

NELSON RIVER AT WARREN LANDING - STATION NO. 05UB003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	217.348	217.324	217.352	217.423	217.513	217.628	217.748	217.810	217.635	217.585	217.440	217.326	1
2	217.346	217.312	217.359	217.435	217.502	217.605	217.793	217.844	217.680	217.586	217.401	217.306	2
3	217.323	217.325	217.360	217.433	217.513	217.578	217.745	217.805	217.681	217.520	217.758	217.377	3
4	217.352	217.321	217.374	217.445	217.524	217.593	217.598	217.842	217.645	217.614	217.885	217.287	4
5	217.344	217.330	217.350	217.447	217.525	217.645	217.775	217.775	217.658	217.486	217.644	217.331	5
6	217.338	217.340	217.344	217.453	217.518	217.616	217.827	217.839	217.558	217.484	217.452	217.338	6
7	217.333	217.323	217.377	217.469	217.518	217.656	217.771	217.758	217.717	217.560	217.422	217.331	7
8	217.341	217.318	217.392	217.473	217.540	217.672	217.787	217.702	217.671	217.602	217.304	217.324	8
9	217.341	217.328	217.389	217.478	217.557	217.716	217.819	217.818	217.613	217.769	217.418	217.332	9
10	217.329	217.343	217.418	217.453	217.520	217.755	217.795	217.708	217.554	217.636	217.428	217.324	10
11	217.328	217.333	217.414	217.455	217.531	217.726	217.801	217.745	217.548	217.408	217.452	217.324	11
12	217.337	217.348	217.405	217.467	217.486	217.741	217.851	217.845	217.601	217.504	217.567	217.337	12
13	217.323	217.344	217.388	217.485	217.535	217.716	217.858	217.736	217.578	217.642	217.532	217.343	13
14	217.327	217.338	217.394	217.473	217.528	217.702	217.839	217.771	217.610	217.538	217.343	217.317	14
15	217.340	217.356	217.405	217.475	217.562	217.574	217.832	217.758	217.604	217.598	217.387	217.306	15
16	217.327	217.354	217.413	217.485	217.588	217.692	217.888	217.757	217.728	217.500	217.575	217.322	16
17	217.327	217.341	217.401	217.496	217.605	217.739	217.918	217.785	217.869	217.412	217.713	217.335	17
18	217.337	217.323	217.402	217.498	217.602	217.755	217.872	217.705	217.731	217.488	217.536	217.328	18
19	217.336	217.332	217.409	217.503	217.555	217.766	217.870	217.576	217.532	217.511	217.418	217.343	19
20	217.342	217.344	217.411	217.501	217.595	217.732	217.848	217.664	217.381	217.736	217.249	217.340	20
21	217.340	217.354	217.413	217.490	217.606	217.785	217.872	217.709	217.344	217.683	217.103	217.323	21
22	217.340	217.364	217.426	217.484	217.585	217.742	217.886	217.621	217.556	217.615	217.295	217.321	22
23	217.326	217.356	217.418	217.501	217.607	217.754	217.787	217.722	217.743	217.659	217.348	217.326	23
24	217.328	217.354	217.430	217.499	217.612	217.745	217.852	217.672	217.686	217.507	217.084	217.336	24
25	217.335	217.365	217.425	217.488	217.633	217.721	217.864	217.667	217.611	217.532	217.080	217.351	25
26	217.338	217.363	217.422	217.498	217.652	217.683	217.916	217.656	217.620	217.549	217.252	217.342	26
27	217.331	217.331	217.431	217.514	217.643	217.758	217.888	217.654	217.726	217.443	217.385	217.345	27
28	217.320	217.327	217.434	217.516	217.578	217.768	217.853	217.639	217.514	217.342	217.323	217.341	28
29	217.308		217.448	217.526	217.589	217.789	217.774	217.623	217.556	217.573	217.228	217.358	29
30	217.313		217.445	217.516	217.572	217.785	217.809	217.629	217.603	217.528	217.288	217.348	30
31	217.328		217.419		217.614		217.783	217.683		217.583		217.334	31
MEAN	217.333	217.340	217.402	217.479	217.585	217.703	217.822	217.726	217.629	217.557	217.408	217.333	MEAN
MAX	217.352	217.385	217.448	217.525	217.652	217.788	217.916	217.845	217.989	217.789	217.885	217.377	MAX
MIN	217.308	217.312	217.344	217.423	217.488	217.574	217.598	217.578	217.344	217.342	217.080	217.287	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MEAN, 217.525
MAXIMUM DAILY, 217.889 ON SEP 17
MINIMUM DAILY, 217.080 ON NOV 25
MAXIMUM INSTANTANEOUS,
218.199 AT 10:50 CST ON SEP 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 41 51 N
LONG 97 52 15 W

REGULATED SINCE 1973

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1986 ADJ.)

NETLEY CREEK NEAR MATLOCK - STATION NO. 05DJ009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.09 B	0.340	0.281	---	---	---	---	---	---	1
2	---	---	0 B	2.11 B	0.308	0.349	---	---	---	---	---	---	2
3	---	---	0 B	2.68	0.383	0.434	---	---	---	---	---	---	3
4	---	---	0 B	4.02	0.340	0.266	---	---	---	---	---	---	4
5	---	---	0 B	4.87	0.397	0.247	---	---	---	---	---	---	5
6	---	---	0 B	5.18	0.414	0.251	---	---	---	---	---	---	6
7	---	---	0 B	4.82	0.298	0.257	---	---	---	---	---	---	7
8	---	---	0 B	3.55	0.187	0.306	---	---	---	---	---	---	8
9	---	---	0 B	3.37	0.078	0.312	---	---	---	---	---	---	9
10	---	---	0 B	3.36	0.027	0.282	---	---	---	---	---	---	10
11	---	---	0 B	3.39	0.019	0.230	---	---	---	---	---	---	11
12	---	---	0.0108	3.07	0.011	0.185	---	---	---	---	---	---	12
13	---	---	0.0208	2.42	0.011	0.195	---	---	---	---	---	---	13
14	---	---	0.0108	1.97	0.003	0.154	---	---	---	---	---	---	14
15	---	---	0 B	1.76	0	0.108	---	---	---	---	---	---	15
16	---	---	0 B	1.52	0	0.089	---	---	---	---	---	---	16
17	---	---	0 B	1.38	0	0.058	---	---	---	---	---	---	17
18	---	---	0 B	1.28	0	0.025	---	---	---	---	---	---	18
19	---	---	0 B	1.17	0.001	0	---	---	---	---	---	---	19
20	---	---	0 B	1.08	0	0	---	---	---	---	---	---	20
21	---	---	0 B	1.00	0	0.002	---	---	---	---	---	---	21
22	---	---	0 B	0.917	0	0.015	---	---	---	---	---	---	22
23	---	---	0 B	0.830	0	0	---	---	---	---	---	---	23
24	---	---	0 B	0.757	0	0	---	---	---	---	---	---	24
25	---	---	0 B	0.697	0	0	---	---	---	---	---	---	25
26	---	---	0 B	0.675	0.023	0	---	---	---	---	---	---	26
27	---	---	0 B	0.628	0.008	0	---	---	---	---	---	---	27
28	---	---	0 B	0.546	0.015	0	---	---	---	---	---	---	28
29	---		0.0508	0.474	0.087	0	---	---	---	---	---	---	29
30	---		0.2448	0.403	0.115	0	---	---	---	---	---	---	30
31	---		0.4588		0.235		---	---	---	---	---	---	31
TOTAL	---	---	0.822	82.047	3.272	4.024	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.027	2.07	0.108	0.134	---	---	---	---	---	---	MEAN
MAX	---	---	0.458	5.18	0.414	0.434	---	---	---	---	---	---	MAX
MIN	---	---	0	0.403	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.575
MAXIMUM DAILY, 5.18 ON APR 6
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
8.74 AT 13:12 CST ON APR 5

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 52 N
LONG 97 09 56 W
DRAINAGE AREA, 245 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	71.0	SEP	---
APR	5 380	OCT	---
MAY	283	NOV	---
JUN	348	DEC	---

TOTAL DISCHARGE, 6 080 dam³

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05DJ008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	7.71 B	0.743	0.197	0.382	0.254	0.043	0.073	---	---	1
2	---	---	0 B	9.25 B	0.629	0.201	0.458	0.294	0.043	0.074	---	---	2
3	---	---	0 B	11.2 B	0.523	0.198	1.36	0.311	0.031	0.072	---	---	3
4	---	---	0 B	13.6 B	0.420	0.195	1.63	0.308	0.035	0.083	---	---	4
5	---	---	0 B	17.3	0.337	0.201	1.10	0.300	0.039	0.073	---	---	5
6	---	---	0 B	21.7	0.258	0.200	0.881	0.290	0.043	0.081	---	---	6
7	---	---	0 B	20.9	0.185	0.199	0.527	0.258	0.044	0.088	---	---	7
8	---	---	0 B	16.1	0.112	0.201	0.417	0.205	0.056	0.071	---	---	8
9	---	---	0 B	12.1	0.273	0.201	0.375	0.128	0.068	0.070	---	---	9
10	---	---	0 B	9.92	0.071	0.206	0.342	0.101	0.071	0.077	---	---	10
11	---	---	0 B	7.58	0.074	0.212	0.284	0.071	0.065	0.090	---	---	11
12	---	---	0 B	6.28	0.077	0.214	0.198	0.054	0.065	0.128	---	---	12
13	---	---	0 B	4.83	0.080	0.221	0.148	0.038	0.064	0.080	---	---	13
14	---	---	0 B	4.45	0.087	0.225	0.142	0.032	0.049	0.059	---	---	14
15	---	---	0 B	4.18	0.092	0.238	0.143	0.027	0.042	0.089	---	---	15
16	---	---	0 B	3.71	0.093	0.241	0.142	0.010	0.048	0.086	---	---	16
17	---	---	0 B	3.46	0.097	0.219	0.156	0.018	0.045	0.081	---	---	17
18	---	---	0 B	3.16	0.103	0.184	0.164	0.020	0.042	0.055	---	---	18
19	---	---	0 B	2.82	0.104	0.145	0.169	0.030	0.034	0.053	---	---	19
20	---	---	0 B	2.70	0.109	0.115	0.172	0.031	0.030	0.053	---	---	20
21	---	---	0 B	2.63	0.114	0.053	0.178	0.050	0.033	0.058	---	---	21
22	---	---	0 B	2.33	0.118	13.0	0.193	0.055	0.045	0.058	---	---	22
23	---	---	0 B	1.95	0.121	13.2	0.183	0.049	0.057	0.052	---	---	23
24	---	---	0 B	1.74	0.124	6.70	0.171	0.053	0.055	0.071	---	---	24
25	---	---	0 B	1.54	0.137	3.65	0.182	0.048	0.053	0.074	---	---	25
26	---	---	0 B	1.40	0.150	2.22	0.203	0.059	0.042	0.086	---	---	26
27	---	---	0 B	1.28	0.166	1.32	0.208	0.068	0.035	0.068	---	---	27
28	---	---	0.8498	1.12	0.180	0.830	0.205	0.062	0.032	0.089	---	---	28
29	---		2.15 B	0.990	0.184	0.538	0.214	0.064	0.038[1]	0.105	---	---	29
30	---		3.86 B	0.870	0.187	0.421	0.238	0.045	0.052	0.118	---	---	30
31	---		5.27 B		0.195		0.228	0.040		0.107		---	31
TOTAL	---	---	13.139	198.220	5.943	45.984	11.193	3.423	1.420	2.286	---	---	TOTAL
MEAN	---	---	0.424	6.61	0.192	1.53	0.361	0.110	0.047	0.074	---	---	MEAN
MAX	---	---	5.27	21.7	0.743	13.2	1.63	0.311	0.071	0.128	---	---	MAX
MIN	---	---	0	0.870	0.071	0.053	0.142	0.010	0.030	0.053	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.15
MAXIMUM DAILY, 21.7 ON APR 6
MINIMUM DAILY, 0.0 ON MAR 1

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 19 36 N
LONG 97 02 39 W
DRAINAGE AREA, 598 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	867
FEB	---	AUG	296
MAR	1 140	SEP	123
APR	17 100	OCT	198
MAY	513	NOV	---
JUN	3 970	DEC	---

TOTAL DISCHARGE, 24 300 dam³

NORTH MOOSE LAKE AT MOOSE LAKE NARROWS CONTROL STRUCTURE - STATION NO. 05KK005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	256.020	256.008	---	255.963A	255.834	---	255.954	256.022	256.084	256.115	256.217	256.185	1
2	256.019	255.999	---	255.963A	255.835	---	255.950	256.040	256.081	256.112	256.140	256.182	2
3	256.021	255.998	---	255.958A	255.835	---	255.977	256.029	256.102	256.113	256.062	256.180	3
4	256.024	256.998	---	255.957A	255.837	---	256.023	256.047	256.074	256.124	256.120	256.179	4
5	256.024	255.997A	---	255.956A	255.841	---	255.936	256.048	256.089	256.229	256.215	256.178	5
6	256.023	---	---	255.951A	255.938	---	255.963	256.035	256.100	256.196	256.210	256.177	6
7	256.018	---	---	255.947A	255.935	---	255.979	256.075	256.040	256.156	256.268	256.176	7
8	256.021	---	---	255.936A	255.937	---	255.943	256.040	256.085	256.153	256.221	256.179	8
9	256.018	---	---	255.937A	255.946	---	255.940	256.013	256.084	256.107	256.184	256.178	9
10	256.015	---	255.974A	255.931A	255.950	---	255.981	256.056	256.154	256.193	256.195	256.177	10
11	256.009	---	255.979A	255.924A	255.984	---	256.034	256.020	256.136	256.259	256.174	256.192	11
12	256.014	---	255.982A	255.918A	255.988	---	255.963	256.010	256.137	256.180	256.173	256.202	12
13	256.014	---	255.982A	255.913A	255.978	---	255.995	256.040	256.132	256.174	256.207	256.186	13
14	256.009	---	255.981A	255.911	255.982	256.118A	255.977	256.014	256.127	256.194	256.200	256.178	14
15	256.010	---	255.980A	255.909	255.986	256.080	255.990	256.059	256.123	256.142	256.190	256.178	15
16	256.012	---	255.976A	255.898	255.978A	255.989	256.008	256.018	256.102	256.182	256.193	256.175	16
17	256.006	---	255.977A	255.898	---	255.971	255.995	256.032	256.114	256.242	256.195	256.174	17
18	256.007	---	255.975A	256.895	---	255.959	256.022	256.055	256.157	256.148	256.195	256.172	18
19	256.006	---	255.971A	255.898	---	255.976	256.026	256.140A	256.127	256.107	256.186	256.173	19
20	256.007	---	255.975A	255.892	---	255.987	256.029	---	256.118	256.083	256.197	256.172	20
21	256.006	---	255.971A	255.894	---	256.002	256.003	---	256.115	256.182	256.195	256.185	21
22	256.006	---	255.969A	255.893	---	256.020	256.038	---	256.112	256.140	256.194	256.170	22
23	256.007	---	255.969A	255.895	---	255.990	256.040	---	256.111	256.185	256.196	256.187	23
24	256.004	---	255.970A	255.897	---	255.978	256.024	---	256.120	255.209	256.192	256.184	24
25	256.000	---	255.968A	255.904	---	255.980	256.007	256.059A	256.116	256.178	256.190	256.152	25
26	256.002	---	255.969A	255.911	---	256.006	256.010	256.057	256.112	256.148	256.191	256.142	26
27	256.003	---	255.971A	255.910	---	255.984	256.000	256.053	256.117	256.221	256.189	256.136	27
28	256.006	---	255.970A	255.917	---	255.986	256.037	256.082	256.132	256.218	256.185	256.132	28
29	256.010		255.966A	255.925	---	255.981	256.042	256.055	256.117	256.148	256.189	256.133	29
30	256.004		255.965A	255.932	---	255.983	256.036	256.066	256.111	256.162	256.187	256.132	30
31	256.004		255.965A		---		256.038	256.045		256.168		256.127	31
MEAN	256.011	---	---	255.921	---	---	255.998	---	256.109	256.165	256.189	256.168	MEAN
MAX	256.024	---	---	255.963	---	---	256.042	---	256.157	256.259	256.268	256.202	MAX
MIN	256.000	---	---	255.893	---	---	255.936	---	256.040	256.083	256.062	256.127	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 256.268 ON NOV 7

MAXIMUM INSTANTANEOUS,
256.373 AT 18:04 CST ON NOV 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 57 00 N
LONG 100 10 00 W

A - MANUAL GAUGE

REGULATED SINCE 1964

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06GB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	55.78	53.08	45.38	40.48	38.18	121	596	332	286	309	286	1940	1
2	54.98	52.48	45.38	40.48	38.18	132	590	335	280	310	280	1900	2
3	54.53	52.08	45.08	40.28	38.18	142	579	332	281	312	279	1850	3
4	53.78	51.78	44.78	40.28	38.18	154	572	335	288	315	277	1810	4
5	53.48	51.48	44.78	39.98	38.18	168	556	328	286	318	279	1790	5
6	52.88	51.08	44.48	39.86	38.18	181	549	316	283	317	279	1750	6
7	52.38	50.78	44.18	39.78	38.18	191	545	312	282	315	278	1710	7
8	51.98	50.48	44.18	39.78	38.18	206	535	303	284	313	275	1670	8
9	51.18	50.48	43.88	39.78	38.18	224	522	300	289	313	273	1640	9
10	50.88	50.18	43.58	39.48	38.18	243	514	300	286	315	272	1610	10
11	50.48	49.88	43.58	39.48	38.18	260	502	297	285	314	270	1590	11
12	50.18	49.58	43.28	39.48	38.18	282	488	292	288	313	267	1560	12
13	49.78	49.38	42.98	39.48	38.18	303	482	288	288	313	264	1530	13
14	49.08	49.08	42.68	39.48	38.18	330	466	281	286	309	261	1510	14
15	48.78	48.78	42.68	39.28	38.18	357	455	277	285	309	259	1480	15
16	48.38	48.48	42.38	38.98	38.18	382	454	274	287	317	255	1470	16
17	48.08	48.18	42.38	38.98	38.18	411	448	274	287	314	252	1440	17
18	47.68	47.88	42.08	38.98	38.18	442	441	271	270	308	2470	1420	18
19	47.38	47.58	42.08	38.98	38.48	464	430	273	280	308	2430	1400	19
20	46.98	47.58	41.88	38.78	38.78	484	417	277	284	303	2380	1380	20
21	46.68	47.58	41.88	38.78	39.28	522	406	277	288	300	2340	1370	21
22	46.08	47.28	41.58	38.78	39.78	545	389	279	293	298	2310	1360	22
23	45.78	47.08	41.58	38.48	40.48	562	393	279	295	300	2270	1340	23
24	45.58	46.78	41.38	38.48	41.18	576	380	279	298	303	2220	1330	24
25	45.28	46.48	41.38	38.48	42.68	587	372	277	300	299	2180	1310	25
26	44.98	46.18	41.18	38.18	47.28	598	366	276	303	295	2140	1300	26
27	44.68	46.18	40.98	38.18	58.38	601	356	272	304	295	2100	1280	27
28	44.38	45.88	40.98	38.18	70.78	603	360	276	310	298	2080	1270	28
29	44.08		40.68	38.18	89.38	604	354	272	314	294	2010	1260	29
30	43.78		40.68	38.18	101	597	349	269	310	289	1970	1240	30
31	43.38		40.48		111		340	267		289		1230	31
TOTAL	1 820.7	1 371.8	1 322.0	1 173.7	1 443.4	11 282	14 221	9 039	8 357	9 501	7 494	4 674	TOTAL
MEAN	58.7	49.0	42.6	39.1	46.6	376	459	292	279	306	250	151	MEAN
MAX	65.7	53.0	45.3	40.4	111	604	598	335	314	318	288	194	MAX
MIN	53.3	45.8	40.4	38.1	38.1	121	340	267	280	289	197	123	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 196
MAXIMUM DAILY, 604 ON JUN 29
MINIMUM DAILY, 38.18 ON APR 26
MAXIMUM INSTANTANEOUS,
609 AT 20:20 CST ON JUN 28

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 50 40 N
LONG 98 17 20 W
DRAINAGE AREA, 17 800 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	157 000	JUL	1 230 000
FEB	119 000	AUG	781 000
MAR	114 000	SEP	722 000
APR	101 000	OCT	821 000
MAY	125 000	NOV	647 000
JUN	975 000	DEC	404 000

TOTAL DISCHARGE, 6 200 000 dam³

NORTH SHOAL LAKE NEAR INWOOD - STATION NO. 05LN004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	29.132	29.134	29.155	---	29.221	29.218	29.098	28.985	28.946	28.981	---	1
2	---	29.135	29.136	29.152	29.273A	29.202	29.198	29.083	28.954	28.932	28.970	---	2
3	---	29.145	29.139	29.155	29.324	29.233	29.221	29.097	28.976	28.940	28.895	---	3
4	---	29.144	29.144	29.156	29.275	29.263	29.270	29.086	28.985	28.936	28.832	---	4
5	---	29.148	29.152	29.156	29.261	29.238	29.173	29.102	28.955	29.001	28.843	---	5
6	---	29.150	29.164	29.156	29.285	29.242	29.172	29.056	28.991	28.983	28.847	---	6
7	---	29.133	29.174	29.156	29.270	29.205	29.165	29.101	28.947	28.980	28.867	---	7
8	---	29.127	29.175	29.164	29.220	29.223	29.194	29.078	28.983	28.947	28.878	---	8
9	---	29.125	29.195	29.181	29.160	29.181	29.167	29.054	28.989	28.854	28.853	---	9
10	---	29.124	29.173	29.207	29.200	29.167	29.178	29.078	29.040	28.925	28.843	---	10
11	---	29.124	29.176	29.221	29.298	29.171	29.187	29.051	28.988	29.008	28.832	---	11
12	---	29.124	29.177	29.230	29.287	29.180	29.169	29.009	28.955	28.993	28.819	---	12
13	---	29.121	29.173	29.225	29.269	29.207	29.174	29.071	28.958	28.984	28.833	---	13
14	---	29.123	29.167	29.228	29.285	29.209	29.173	29.020	28.957	28.984	28.853	---	14
15	---	29.125	29.152	29.228	29.262	29.264	29.138	29.042	28.947	28.954	28.946	28.835A	15
16	---	29.128	29.151	---	29.247	29.187	29.173	29.008	28.928	28.985	28.813	28.835	16
17	---	29.127	29.151	---	29.250	29.181	29.188	29.014	28.975	28.988	28.881	28.830	17
18	29.115A	29.130	29.149	---	29.246	29.189	29.189	29.017	28.979	28.954	28.910A	28.828A	18
19	29.126	29.138	29.147	---	29.262	29.142	29.165	29.075	28.985	28.948	---	---	19
20	29.131	29.134	29.146	---	29.246	29.186	29.172	28.997	28.995	28.911	---	---	20
21	29.131	29.134	29.145	---	29.265	29.193	29.184	29.018	28.991	28.926	---	---	21
22	29.131	29.134	29.144	---	29.277	29.235	29.189	29.006	28.948	28.923	---	---	22
23	29.133	29.133	29.147	---	29.265	29.220	29.182	28.995	28.908	28.925	---	---	23
24	29.126	29.135	29.148	---	29.265	29.207	29.185	29.006	28.921	28.978	---	---	24
25	29.119	29.136	29.150	---	29.237	29.228	29.135	29.008	28.931	28.954	---	---	25
26	29.117	29.136	29.151	---	29.197	29.245	29.104	29.013	28.920	28.944	---	---	26
27	29.124	29.137	29.151	---	29.232	29.212	29.128	29.002	28.884	28.963	---	---	27
28	29.134	29.132	29.145	---	29.300	29.204	29.129	29.000	28.958	28.994	---	---	28
29	29.124		29.150	---	29.264	29.189	29.124	29.000	28.928	28.912	---	---	29
30	29.130		29.151	---	29.261	29.217	29.118	28.992	28.943	28.925	---	---	30
31	29.133		29.153		29.227		29.135	28.972		28.898			31
MEAN	---	29.133	29.154	---	---	29.208	29.155	29.037	28.955	28.948	---	---	MEAN
MAX	---	29.150	29.177	---	---	29.264	29.270	29.102	29.040	29.008	---	---	MAX
MIN	---	29.121	29.134	---	---	29.142	29.104	28.972	28.875	28.854	---	---	MIN

WATER LEVELS IN METRES

A - MANUAL GAUGE

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 29.324 ON MAY 3

MAXIMUM INSTANTANEOUS,
29.418 AT 04:17 CST ON JUL 4

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 26 00 N
LONG 97 37 30 W

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

OAK CREEK NEAR STOCKTON - STATION NO. 05NG010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0068	0.0058	0.0187	12.0 B	2.16	0.727	0.195	0.055	0.001	0.001	0.001	0.0028	1
2	0.0058	0.0048	0.0158	7.258	1.99	0.675	0.236	0.045	0.001	0.001	0.001	0.0028	2
3	0.0068	0.0058	0.0128	5.688	1.78	0.625	0.235	0.043	0.001	0.001	0.001	0.0028	3
4	0.0078	0.0068	0.0108	7.148	1.86	0.559	0.195	0.038	0.001	0.001	0.001	0.0028	4
5	0.0088	0.0068	0.0148	8.978	1.69	0.540	0.172	0.049	0.001	0.001	0.001	0.0028	5
6	0.0078	0.0078	1.21 B	9.018	1.86	0.490	0.183	0.038	0.001	0.001	0.001	0.0028	6
7	0.0068	0.0068	1.49 B	5.418	1.56	0.431	0.175	0.028	0.001	0.001	0.001	0.0028	7
8	0.0068	0.0058	0.5858	5.35	1.45	0.404	0.158	0.018	0.001	0.001	0.001	0.0028	8
9	0.0078	0.0048	0.2248	4.80	1.41	0.383	0.188	0.015	0.001	0.001	0.001	0.0028	9
10	0.0068	0.0048	0.2458	4.83	1.41	0.385	0.216	0.008	0.001	0.001	0.001	0.0028	10
11	0.0068	0.0048	0.2688	4.83	1.18	0.334	0.193	0.008	0.001	0.001	0.001	0.0028	11
12	0.0078	0.0038	0.0228	4.54	1.29	0.319	0.183	0.008	0.001	0.001	0.001	0.0028	12
13	0.0068	0.0038	0.0488	4.08	1.67	0.303	0.185	0.005	0.001	0.001	0.001	0.0028	13
14	0.0058	0.0058	0.0428	3.82	1.34	0.286	0.159	0.005	0.001	0.003	0.001	0.0028	14
15	0.0058	0.0068	0.0588	4.53	1.46	0.274	0.158	0.003	0.001	0.001	0.001	0.0028	15
16	0.0058	0.0068	0.0478	4.51	1.43	0.267	0.179	0.002	0.001	0.001	0.001	0.0028	16
17	0.0058	0.0068	0.0378	4.51	1.33	0.249	0.188	0.003	0.001	0.001	0.001	0.0028	17
18	0.0068	0.0088	0.0218	4.56	1.22	0.240	0.183	0.003	0.001	0.001	0.001	0.0028	18
19	0.0058	0.0108	0.0158	4.49	1.27	0.243	0.150	0.002	0.001	0.001	0.001	0.0028	19
20	0.0058	0.0088	0.0138	4.26	1.45	0.245	0.156	0.004	0.001	0.001	0.001	0.0028	20
21	0.0058	0.0088	0.0178	4.03	1.29	0.238	0.152	0.004	0.001	0.001	0.002	0.0028	21
22	0.0048	0.0088	0.0228	3.77	1.11	0.278	0.143	0.004	0.001	0.001	0.002	0.0028	22
23	0.0058	0.0078	0.0258	3.53	1.07	0.271	0.143	0.004	0.001	0.001	0.002	0.0028	23
24	0.0048	0.0088	0.0218	3.26	1.00	0.258	0.080	0.004	0.001	0.001	0.002	0.0028	24
25	0.0078	0.0088	0.0508	3.01	0.920	0.246	0.100	0.011	0.001	0.006	0.0028	0.0018	25
26	0.0108	0.0088	0.2378	2.87	0.890	0.239	0.087	0.019	0.001	0.001	0.0028	0.0018	26
27	0.0088	0.0138	0.2668	2.57	0.974	0.213	0.093	0.011	0.001	0.001	0.0028	0.0018	27
28	0.0068	0.0218	2.06 B	2.28	0.786	0.185	0.074	0.005	0.001	0.001	0.0028	0.0018	28
29	0.0058		4.52 B	2.25	1.03	0.189	0.082	0.002	0.001	0.001	0.0028	0.0018	29
30	0.0058		7.81 B	2.18	0.988	0.187	0.058	0.001	0.001	0.001	0.0028	0.0018	30
31	0.0068		17.6 B		0.782		0.056	0.001		0.001		0.0018	31
TOTAL	0.182	0.193	37.102	140.11	41.340	10.241	4.707	0.448	0.030	0.038	0.040	0.055	TOTAL
MEAN	0.006	0.007	1.20	4.67	1.33	0.341	0.152	0.014	0.001	0.001	0.001	0.002	MEAN
MAX	0.010	0.021	17.6	12.0	2.16	0.727	0.236	0.055	0.001	0.006	0.002	0.002	MAX
MIN	0.004	0.003	0.010	2.18	0.782	0.189	0.056	0.001	0.001	0.001	0.001	0.001	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.642
MAXIMUM DAILY, 17.68 ON MAR 31
MINIMUM DAILY, 0.001 ON AUG 30
MAXIMUM INSTANTANEOUS,
18.28 AT 19:55 CST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 44 N
LONG 98 30 49 W
DRAINAGE AREA, 1 050 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	15.7	JUL	407
FEB	16.7	AUG	38.7
MAR	3 210	SEP	2.58
APR	12 100	OCT	3.28
MAY	3 570	NOV	3.46
JUN	885	DEC	4.75

TOTAL DISCHARGE, 20 300 dam³

OAK LAKE AT OAK LAKE RESORT - STATION NO. 05MG008

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	429.407	430.058	429.800	429.734	429.598	429.594	429.530E	429.515	---	1
2	---	---	---	429.408	430.050	429.807	429.747	429.593	429.583	429.531E	429.498	---	2
3	---	---	---	429.412	430.033	429.817	429.778	429.590	429.595	429.532E	429.510	---	3
4	---	---	---	429.410	430.005	429.789	429.763	429.590	429.575	429.535E	429.534	---	4
5	---	---	---	429.394	429.984	429.801	429.763	429.578	429.572	429.544E	429.523	---	5
6	---	---	---	429.370	429.959	429.801	429.784	429.575	429.566	429.548E	429.518	---	6
7	---	---	---	429.367	429.962	429.798	429.762	429.581	429.559	429.549E	429.524	---	7
8	---	---	---	429.372	429.938	429.785	429.748	429.554	429.547	429.553E	429.515	---	8
9	---	---	---	429.375	429.929	429.784	429.750	429.546	429.546	429.557E	429.512	---	9
10	---	---	---	429.388	429.935	429.795	429.807	429.537	429.578	429.559A	429.510A	---	10
11	---	---	---	429.407	429.895	429.782	429.830	429.532	429.545	429.546	---	---	11
12	---	---	---	429.436	429.875	429.780	429.787	429.534	429.544	429.537	---	---	12
13	---	---	---	429.487	429.899	429.782	429.781	429.522	429.548	429.536	---	---	13
14	---	---	---	429.498	429.875	429.774	429.770	429.515	429.532	429.531	---	---	14
15	---	---	---	429.570	429.872	429.784	429.769	429.509	429.539	429.524	---	---	15
16	---	---	---	429.552	429.868	429.753	429.765	429.501	429.559	429.532	---	---	16
17	---	---	---	429.578	429.864	429.761	429.754	429.507	429.585	429.526	---	---	17
18	---	---	---	429.604	429.853	429.745	429.744	429.594	429.606	429.515	---	---	18
19	---	---	---	429.633	429.847	429.748	429.744	429.598	429.583	429.516	---	---	19
20	---	---	---	429.663	429.846	429.747	429.737	429.575	429.584	429.527	---	---	20
21	---	---	---	429.695	429.851	429.744	429.738	429.586	429.569	429.528	---	---	21
22	---	---	---	429.730	429.841	429.758	429.738	429.586	429.569	429.525	---	---	22
23	---	---	---	429.774	429.838	429.745	429.719	429.584	429.553	429.526	---	---	23
24	---	---	---	429.818	429.834	429.724	429.715	429.588	429.569	429.532	---	---	24
25	---	---	---	429.874	429.836	429.747	429.710	429.593	429.566	429.531	---	---	25
26	---	---	---	429.927	429.830	429.733	429.707	429.587	429.568	429.525	---	---	26
27	---	---	---	429.977	429.837	429.724	429.703	429.585	429.567	429.524	---	---	27
28	---	---	---	430.025	429.821	429.723	429.699	429.583	429.566	429.521	---	---	28
29	---		---	430.055	429.807	429.719	429.689	429.585	429.534A	429.523	---	---	29
30	---		429.404A	430.085	429.798	429.738	429.700	429.587	429.528E	429.520	---	---	30
31	---		429.408		429.802		429.703	429.590		429.522		---	31
MEAN	---	---	---	429.807	429.892	429.767	429.745	429.621	429.558	429.532	---	---	MEAN
MAX	---	---	---	430.085	430.058	429.817	429.820	429.598	429.606	429.558	---	---	MAX
MIN	---	---	---	429.367	429.798	429.719	429.689	429.575	429.528	429.515	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 430.085 ON APR 30

MAXIMUM INSTANTANEOUS,
430.077 AT 18:06 CST ON APR 30

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 40 N
LONG 100 42 30 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
4 770 km²

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0B	0 B	0.820	0.002	0	0	0	0	0	0	1
2	0B	0B	0B	0 B	0.534	0	0	0	0	0	0	0	2
3	0B	0B	0B	0 B	0.523	0	0	0	0	0	0	0	3
4	0B	0B	0B	0 B	0.489	0	0	0	0	0	0	0	4
5	0B	0B	0B	0 B	0.450	0	0	0	0	0	0	0	5
6	0B	0B	0B	0 B	0.407	0	0	0	0	0	0	0	6
7	0B	0B	0B	0 B	0.352	0	0	0	0	0	0	0	7
8	0B	0B	0B	0.0838	0.302	0	0	0	0	0	0	0	8
9	0B	0B	0B	0.0728	0.276	0	0	0	0	0	0	0	9
10	0B	0B	0B	0.1488	0.240	0	0	0	0	0	0	0	10
11	0B	0B	0B	0.1718	0.189	0	0	0	0	0	0	0	11
12	0B	0B	0B	0.0688	0.204	0	0	0	0	0	0	0	12
13	0B	0B	0B	0.0508	0.182	0	0	0	0	0	0	0	13
14	0B	0B	0B	0.0238	0.226	0	0	0	0	0	0	0	14
15	0B	0B	0B	0.0688	0.205	0	0	0	0	0	0	0	15
16	0B	0B	0B	0.1218	0.260	0	0	0	0	0	0	0	16
17	0B	0B	0B	0.2248	0.288	0	0	0	0	0	0	0	17
18	0B	0B	0B	0.4748	0.231	0	0	0	0	0	0	0	18
19	0B	0B	0B	1.13 B	0.198	0	0	0	0	0	0	0	19
20	0B	0B	0B	1.98 B	0.188	0	0	0	0	0	0	0	20
21	0B	0B	0B	2.70	0.154	0	0	0	0	0	0	0	21
22	0B	0B	0B	2.73	0.135	0	0	0	0	0	0	0	22
23	0B	0B	0B	2.73	0.115	0	0	0	0	0	0	0	23
24	0B	0B	0B	2.76	0.105	0	0	0	0	0	0	0	24
25	0B	0B	0B	2.27	0.078	0	0	0	0	0	0	0	25
26	0B	0B	0B	1.80	0.068	0	0	0	0	0	0	0	26
27	0B	0B	0B	1.26	0.048	0	0	0	0	0	0	0	27
28	0B	0B	0B	1.21	0.038	0	0	0	0	0	0	0	28
29	0B		0B	1.03	0.028	0	0	0	0	0	0	0	29
30	0B		0B	0.804	0.025	0	0	0	0	0	0	0	30
31	0B		0B		0.018		0	0		0		0	31
TOTAL	0	0	0	23.692	7.183	0.002	0	0	0	0	0	0	TOTAL
MEAN	0	0	0	0.790	0.232	0	0	0	0	0	0	0	MEAN
MAX	0	0	0	2.76	0.820	0.002	0	0	0	0	0	0	MAX
MIN	0	0	0	0	0.018	0	0	0	0	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.085
MAXIMUM DAILY, 2.76 ON APR 24
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
2.77 AT 12:00 CST ON APR 24

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 28 33 N
LONG 100 35 18 W
DRAINAGE AREA, 370 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	0
FEB	0	AUG	0
MAR	0	SEP	0
APR	2 050	OCT	0
MAY	621	NOV	0
JUN	0.17	DEC	0

TOTAL DISCHARGE, 2 670 dam³

OAK RIVER NEAR BRADWARDINE - STATION NO. OSM5010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0B	0 B	0.0148	2.82	0.154	0.018	0.015	0.115	0.004	0.002E	0.0028	1
2	0B	0B	0 B	0.0888	2.47	0.133	0.026	0.015	0.088	0.003	0.002E	0.0028	2
3	0B	0B	0 B	0.3188	2.24	0.186	0.030	0.013	0.010	0.003	0.002E	0.0028	3
4	0B	0B	0 B	0.9688	2.04	0.138	0.010	0.012	0.003	0.004	0.002E	0.0028	4
5	0B	0B	0 B	1.76 B	1.87	0.107	0.033	0.012	0.003	0.003	0.002E	0.0028	5
6	0B	0B	0 B	2.46 B	1.70	0.084	0.054	0.015	0.003	0.002	0.002E	0.0038	6
7	0B	0B	0 B	4.09 B	1.54	0.069	0.052	0.012	0.002	0.003	0.002E	0.0038	7
8	0B	0B	0 B	5.67 B	1.40	0.020	0.052	0.006	0.002	0.002	0.002E	0.0038	8
9	0B	0B	0 B	17.4 B	1.29	0.012	0.050	0.003	0.002	0.003	0.002E	0.0038	9
10	0B	0B	0 B	23.5 B	1.18	0.031	0.240	0.002	0.002	0.003	0.002E	0.0038	10
11	0B	0B	0 B	21.2 B	1.02	0.046	0.077	0	0.001	0.001	0.002E	0.0038	11
12	0B	0B	0 B	14.9 B	1.01	0.051	0.068	0	0.001	0.001	0.002E	0.0038	12
13	0B	0B	0 B	9.30 B	1.09	0.048	0.070	0	0.001	0.001	0.002E	0.0038	13
14	0B	0B	0 B	2.92 B	1.20	0.045	0.044	0	0.002	0.001	0.002E	0.0038	14
15	0B	0B	0 B	4.73 B	1.11	0.044	0.038	0	0.003	0.001	0.002E	0.0038	15
16	0B	0B	0 B	3.75 B	1.10	0.031	0.041	0	0.003	0.001	0.002E	0.0038	16
17	0B	0B	0 B	15.2 B	1.12	0.035	0.039	0	0.003	0.001	0.002E	0.0038	17
18	0B	0B	0 B	15.5	1.02	0.028	0.038	0	0.003	0.001	0.002E	0.0028	18
19	0B	0B	0 B	12.3	0.983	0.023	0.038	0	0.003	0.001	0.002E	0.0018	19
20	0B	0B	0 B	12.0	0.930	0.024	0.030	0	0.003	0.001	0.002E	0 B	20
21	0B	0B	0 B	12.9	0.894	0.018	0.030	0	0.003	0.002	0.002E	0 B	21
22	0B	0B	0 B	12.8	0.827	0.033	0.026	0	0.003	0.004	0.002B	0 B	22
23	0B	0B	0 B	13.3	0.744	0.033	0.024	0.002	0.003	0.003	0.002B	0 B	23
24	0B	0B	0 B	12.0	0.613	0.022	0.032	0.002	0.003	0.003	0.002B	0 B	24
25	0B	0B	0 B	11.2	0.520	0.020	0.028	0.004	0.003	0.003A	0.002B	0 B	25
26	0B	0B	0.002B	8.58	0.471	0.011	0.021	0.003	0.003	0.003E	0.002B	0 B	26
27	0B	0B	0.008B	6.91	0.368	0.008	0.020	0.002	0.003	0.003E	0.002B	0 B	27
28	0B	0B	0.012B	5.63	0.252	0.006	0.019	0.002	0.003	0.003E	0.002B	0 B	28
29	0B		0.017B	4.26	0.203	0.002	0.016	0.003	0.003	0.003E	0.002B	0 B	29
30	0B		0.028B	3.39	0.216	0.023	0.018	0.001	0.004	0.003E	0.002B	0 B	30
31	0B		0.032B		0.188		0.017	0.028		0.003E		0 B	31
TOTAL	0	0	0.100	259.958	34.399	1.441	1.298	0.155	0.254	0.073	0.080	0.049	TOTAL
MEAN	0	0	0.003	8.67	1.11	0.048	0.042	0.005	0.008	0.002	0.002	0.002	MEAN
MAX	0	0	0.032	23.5	2.82	0.186	0.240	0.028	0.115	0.004	0.002	0.003	MAX
MIN	0	0	0	0.014	0.188	0.002	0.010	0	0.001	0.001	0.002	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.816
MAXIMUM DAILY, 23.58 ON APR 10
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
26.08 AT 04:25 CST ON APR 10

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 30 N
LONG 100 27 46 W
DRAINAGE AREA, 1 810 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	112
FEB	0	AUG	13 4
MAR	8 64	SEP	21 9
APR	22 500	OCT	6 31
MAY	2 970	NOV	6 18
JUN	125	DEC	4 23

TOTAL DISCHARGE, 25 800 dam³

OCHRE RIVER AT OCHRE RIVER - STATION NO. OSLJ005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1258	0.1108	5.73	2.13	2.74	0.430	0.075	0.626	---	---	1
2	---	---	0.1258	0.0958	5.28	2.01	2.19	0.380	0.081	0.404	---	---	2
3	---	---	0.1258	0.0938	4.86	2.49	2.07	0.345	0.089	0.328	---	---	3
4	---	---	0.1228	0.0938	4.11	3.86	1.84	0.318	0.102	0.248	---	---	4
5	---	---	0.1228	0.0808	3.68	4.83	2.18	0.285	0.103	0.271	---	---	5
6	---	---	0.1228	0.1108	3.22	3.87	1.72	0.254	0.150	0.275	---	---	6
7	---	---	0.1198	0.1268	2.88	2.85	1.38	0.228	0.226	0.211	---	---	7
8	---	---	0.1198	0.1738	2.22	2.66	1.14	0.214	0.224	0.183	---	---	8
9	---	---	0.1198	0.2958	2.03	2.45	1.01	0.212	0.223	0.125	---	---	9
10	---	---	0.1168	0.6308	2.06	2.17	1.81	0.208	0.255	0.149	---	---	10
11	---	---	0.1168	0.4508	1.98	1.89	5.74	0.197	0.289	0.251	---	---	11
12	---	---	0.1168	0.3358	1.89	1.85	3.80	0.185	0.278	0.321	---	---	12
13	---	---	0.1138	0.2258	1.87	1.89	2.51	0.168	0.283	0.250	---	---	13
14	---	---	0.1138	0.1728	1.78	2.01	1.88	0.165	0.287	0.210	---	---	14
15	---	---	0.1138	0.1568	1.52	2.85	1.90	0.128	0.284	0.172	---	---	15
16	---	---	0.1108	0.1488	2.23	3.12	1.95	0.114	0.285	0.108	---	---	16
17	---	---	0.1108	0.1438	4.20	2.49	2.47	0.103	0.297	0.092	---	---	17
18	---	---	0.1108	0.2258	11.2	2.16	1.78	0.117	0.345	0.086	---	---	18
19	---	---	0.1078	3.70 B	16.0	1.89	1.39	0.102	0.379	0.052A	---	---	19
20	---	---	0.1078	10.5 B	12.1	1.73	1.15	0.091	0.418	0.071	---	---	20
21	---	---	0.1078	13.6 B	9.15	1.57	0.954	0.093	0.444	0.170	---	---	21
22	---	---	0.1048	16.4 B	7.14	1.57	0.802	0.097	0.483	0.145	---	---	22
23	---	---	0.1048	16.4 B	6.04	1.77	0.673	0.081	0.485	0.112	---	---	23
24	---	---	0.1048	21.4 B	5.16	1.68	0.604	0.101	0.464	0.073	---	---	24
25	---	---	0.1018	27.4 B	4.15	1.87	0.560	0.137	0.439	0.108	---	---	25
26	---	---	0.1018	27.6	3.85	1.76	0.509	0.151	0.484	0.138	---	---	26
27	---	---	0.1018	21.6	3.53	1.54	0.472	0.121	0.440	0.149	---	---	27
28	---	---	0.1258	16.5	3.08	1.36	0.439	0.106	0.454	0.161	---	---	28
29	---		0.1588	10.6	2.69	1.14	0.396	0.101	0.493	0.159	---	---	29
30	---		0.1408	7.82	2.44	1.33	0.442	0.095	0.549	0.159	---	---	30
31	---		0.1258		2.31		0.499	0.088		0.171		---	31
TOTAL	---	---	3.595	194.889	139.89	66.29	46 690	5.410	9.309	5.867	---	---	TOTAL
MEAN	---	---	0.116	6.49	4.51	2.21	1.57	0.175	0.310	0.132	---	---	MEAN
MAX	---	---	0.155	27.6	16.0	4.83	5.74	0.430	0.549	0.626	---	---	MAX
MIN	---	---	0.101	0.090	1.52	1.14	0.396	0.088	0.075	0.052	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.83
MAXIMUM DAILY, 27.6 ON APR 26
MINIMUM DAILY, 0.052A ON OCT 19
MAXIMUM INSTANTANEOUS,
32.38 AT 03:00 CST ON APR 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 03 55 N
LONG 99 46 44 W
DRAINAGE AREA, 344 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	4 210
FEB	---	AUG	467
MAR	311	SEP	804
APR	16 800	OCT	514
MAY	12 100	NOV	---
JUN	5 730	DEC	---

TOTAL DISCHARGE, 40 900 dam³

ODEI RIVER NEAR THOMPSON - STATION NO. 05TS003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	21.48	16.38	11.0 B	5.898	27.08	199	48.1	93.6	42.8	92.0	46.4	23.98	1
2	21.28	16.28	10.8 B	5.598	29.38	193	46.6	90.6	40.9	87.7	45.8	23.48	2
3	21.18	16.08	10.7 B	5.460	31.68	184	45.2	89.1	40.1	82.3	42.7	22.98	3
4	20.98	15.89	10.5 B	5.268	34.98	173	43.3	87.4	39.1	78.4	43.4	22.58	4
5	20.68	15.68	10.3 B	5.278	38.18	159	41.1	85.7	38.8	75.8	43.1	22.08	5
6	20.68	15.58	10.1 B	5.178	42.28	144	39.5	84.7	39.3	72.7	43.4	21.58	6
7	20.48	15.38	9.958	5.068	46.18	129	38.7	84.3	39.1	71.0	44.3	20.98	7
8	20.38	15.18	9.788	4.988	50.8	117	38.1	83.5	38.9	69.3	44.5	20.68	8
9	20.28	15.08	9.608	4.858	62.0	108	37.1	83.7	38.7	66.9	42.6	20.38	9
10	20.08	14.88	9.398	4.778	78.7	97.9	36.6	83.1	39.4	65.3	39.48	19.98	10
11	19.98	14.68	9.188	4.708	88.8	91.4	36.1	83.9	40.4	63.3	38.48	19.58	11
12	19.78	14.58	8.978	4.608	102	85.1	36.2	83.2	40.9	61.4	37.58	19.28	12
13	19.68	14.28	8.788	4.628	109	82.4	35.0	81.9	41.9	59.7	36.78	18.98	13
14	19.48	14.08	8.608	4.588	115	83.3	35.0	80.0	42.1	58.1	35.98	18.68	14
15	19.38	13.88	8.428	4.548	119	85.9	37.5	79.0	42.2	56.6	35.28	18.38	15
16	19.18	13.68	8.248	4.548	124	85.8	44.3	37.5	41.5	55.5	34.58	17.82	16
17	18.98	13.58	8.098	4.568	138	85.1	55.4	38.2	42.1	53.8	33.88	17.58	17
18	18.88	13.38	7.948	4.588	147	83.1	70.5	35.3	50.3	53.1	33.18	17.28	18
19	18.68	13.18	7.798	4.608	148	76.8	80.1	37.6	88.5	52.7	32.48	16.98	19
20	18.58	12.98	7.648	4.628	155	73.5	83.7	40.9	91.5	51.2	31.78	16.68	20
21	18.38	12.68	7.498	4.648	160	69.9	82.5	48.6	110	50.3	30.98	16.38	21
22	18.18	12.48	7.348	4.858	164	66.4	78.5	51.8	123	49.6	30.18	16.08	22
23	18.08	12.38	7.188	5.448	170 A	63.8	76.3	55.0	130	49.1	29.48	15.78	23
24	17.88	12.18	6.988	6.298	172 E	62.2	77.1	56.7	132	48.7	28.78	15.58	24
25	17.68	11.98	6.808	9.438	173 A	60.7	74.4	55.8	127	48.4	27.98	15.28	25
26	17.48	11.78	6.628	13.5 B	172	58.5	71.4	54.3	120	48.5	27.18	14.98	26
27	17.38	11.68	6.448	16.5 B	176	55.2	68.8	53.8	114	48.6	26.38	14.68	27
28	17.18	11.48	6.268	20.1 B	183	52.7	64.8	50.3	107	48.3	25.78	14.38	28
29	16.98		6.088	23.6 B	191	50.8	61.4	48.9	101	47.8	25.08	14.18	29
30	16.78		5.908	25.4 B	197	48.6	58.5	47.2	96.1	47.5	24.48	13.88	30
31	16.58		5.808		201		55.5	44.9		47.1		13.68	31
TOTAL	590.4	389.1	258.64	228.07	3 643.3	2 924.5	1 702.4	1 424.0	2 058.6	1 860.7	1 061.1	582.5	TOTAL
MEAN	19.0	13.9	8.34	7.60	118	97.5	54.9	45.9	68.6	60.0	35.4	18.1	MEAN
MAX	21.4	16.3	11.0	25.4	201	199	83.7	93.7	132	92.0	46.4	23.9	MAX
MIN	16.5	11.4	5.80	4.54	27.0	49.6	35.0	35.3	38.7	47.1	24.4	13.6	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 45.8
MAXIMUM DAILY, 201 ON MAY 31
MINIMUM DAILY, 4.548 ON APR 15
MAXIMUM INSTANTANEOUS,
201 AT 12:00 CST ON MAY 31

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 59 45 N
LONG 97 21 23 W
DRAINAGE AREA, 8 450 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	51 000	JUL	147 000
FEB	33 600	AUG	123 000
MAR	22 300	SEP	178 000
APR	19 700	OCT	161 000
MAY	315 000	NOV	91 700
JUN	253 000	DEC	48 600

TOTAL DISCHARGE, 1 440 000 dam³

ORANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.32 B	0	0	0.181	0	0	0.004	---	---	1
2	---	---	0 B	3.17 B	0	0	0.181	0	0	0	---	---	2
3	---	---	0 B	3.41 B	0	0	0.194	0	0	0	---	---	3
4	---	---	0 B	3.63 B	0	0	0.222	0	0	0.002	---	---	4
5	---	---	0 B	4.49 B	0	0	0.230	0	0	0	---	---	5
6	---	---	0 B	4.19 B	0	0	0.220	0	0	0	---	---	6
7	---	---	0 B	2.82 B	0	0	0.203	0	0	0	---	---	7
8	---	---	0 B	2.09	0	0	0.194	0	0	0	---	---	8
9	---	---	0 B	1.57	0	0	0.181	0	0	0	---	---	9
10	---	---	0 B	1.18	0	0	0.174	0	0	0	---	---	10
11	---	---	0 B	0.843	0	0	0.155	0	0	0	---	---	11
12	---	---	0 B	0.700	0	0	0.140	0	0	0	---	---	12
13	---	---	0 B	0.450	0	L	0.062	0	0	0	---	---	13
14	---	---	0 B	0.364	0	0	0.035	0	0	0	---	---	14
15	---	---	0.0018	0.319	0	0.003	0.012	0	0	0	---	---	15
16	---	---	0 B	0.226	0	0	0.001	0	0	0	---	---	16
17	---	---	0 B	0.179	0	0	0	0	0	0	---	---	17
18	---	---	0 B	0.126	0	0	0	0	0	0	---	---	18
19	---	---	0 B	0.088	0	0	0	0	0	0	---	---	19
20	---	---	0 B	0.036	0	0.017	0	0.016	0	0	---	---	20
21	---	---	0 B	0.035	0	0.041	0	0.029	0	0	---	---	21
22	---	---	0 B	0.045	0	7.41	0	0	0	0	---	---	22
23	---	---	0 B	0.035	0	0.25	0	0	0	0	---	---	23
24	---	---	0 B	0.011	0	3.42	0	0.014	0	0	---	---	24
25	---	---	0 B	0	0	1.72	0	0.003	0	0	---	---	25
26	---	---	0 B	0	0	1.02	0	0	0	0	---	---	26
27	---	---	0 B	0	0	0.582	0	0	0	0	---	---	27
28	---	---	0 B	0	0	0.288	0	0	0	0	---	---	28
29	---		0 B	0	0	0.177	0	0	0	0	---	---	29
30	---		0.8998	0	0	0.184	0	0	0.002	0	---	---	30
31	---		3.31 B		0		0	0		0 A		---	31
TOTAL	---	---	4.010	33.256	0	21.072	2.377	0.061	0.002	0.006	---	---	TOTAL
MEAN	---	---	0.129	1.08	0	0.702	0.077	0.002	0	0	---	---	MEAN
MAX	---	---	3.31	4.49	0	7.41	0.230	0.029	0.002	0.004	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.244
MAXIMUM DAILY, 7.41 ON JUN 22
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
10.1 AT 12:00 CST ON JUN 22

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 54 59 N
LONG 97 12 56 W
DRAINAGE AREA, 75.1 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	205
FEB	---	AUG	5.27
MAR	346	SEP	0.17
APR	2 780	OCT	0.52
MAY	0	NOV	---
JUN	1 820	DEC	---

TOTAL DISCHARGE, 5 170 dam³

OHANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.46 B	0	0	0.119	0	0	0.055	---	---	1
2	---	---	0 B	2.04 B	0	0.004	0.135	0.002	0	0.022	---	---	2
3	---	---	0 B	3.71 B	0	0.004	0.115	0.004	0	0.021	---	---	3
4	---	---	0 B	3.87 B	0	0.001	0.129	0	0	0.023	---	---	4
5	---	---	0 B	4.63 B	0	0	0.086A	0	0	0.011	---	---	5
6	---	---	0 B	4.41 B	0	0	0.087	0	0	0.001	---	---	6
7	---	---	0 B	2.85 B	0	0	0.062	0	0	0	---	---	7
8	---	---	0 B	2.01	0	0	0.027	0	0	0	---	---	8
9	---	---	0 B	1.46	0	0	0.018	0	0	0	---	---	9
10	---	---	0 B	1.21	0	0	0.010	0	0	0	---	---	10
11	---	---	0 B	0.882	0	0	0.002	0	0	0	---	---	11
12	---	---	0 B	0.826	0	0	0.020	0	0	0	---	---	12
13	---	---	0 B	0.530	0	0.048	0.011	0	0	0	---	---	13
14	---	---	0 B	0.456	0	0.014	0.008	0	0	0	---	---	14
15	---	---	0.0018	0.326	0	0.009	0	0	0	0	---	---	15
16	---	---	0 B	0.232	0	0.004	0	0	0	0	---	---	16
17	---	---	0 B	0.184	0	0	0	0	0	0	---	---	17
18	---	---	0 B	0.136	0	0	0	0	0	0	---	---	18
19	---	---	0 B	0.100	0	0	0	0	0	0	---	---	19
20	---	---	0 B	0.074	0	0.027	0	0.052	0	0	---	---	20
21	---	---	0 B	0.111	0	0.081	0	0.134	0	0	---	---	21
22	---	---	0 B	0.116	0	5.52	0	0.007	0	0	---	---	22
23	---	---	0 B	0.098	0	4.46	0	0	0	0	---	---	23
24	---	---	0 B	0.057	0	3.55	0	0.041	0	0	---	---	24
25	---	---	0 B	0.027	0	1.55	0	0.014	0	0	---	---	25
26	---	---	0 B	0.017	0	1.18	0	0	0	0	---	---	26
27	---	---	0 B	0.010	0	0.729	0	0	0	0	---	---	27
28	---	---	0 B	0.005	0.017	0.433	0	0	0	0	---	---	28
29	---		0 B	0.001	0.015	0.251	0	0	0	0	---	---	29
30	---		1.55 B	0	0.006	0.178	0	0	0.026	0		---	30
31	---		5.29 B		0		0	0		0 A		---	31
TOTAL	---	---	6.841	36.048	0.038	21.493	0.787	0.254	0.026	0.144	---	---	TOTAL
MEAN	---	---	0.221	1.13	0.001	0.716	0.025	0.008	0.001	0.005	---	---	MEAN
MAX	---	---	5.29	4.63	0.017	5.52	0.135	0.134	0.026	0.055	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.280
MAXIMUM DAILY, 5.52 ON JUN 22
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
9.85 AT 12:51 CST ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 43 N
LONG 97 12 20 W
DRAINAGE AREA, 80.5 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	68.0
FEB	---	AUG	21.9
MAR	591	SEP	2.25
APR	2 940	OCT	12.4
MAY	3.28	NOV	---
JUN	1 860	DEC	---

TOTAL DISCHARGE, 5 500 dam³

OTTER LAKE NEAR BROAD VALLEY - STATION NO. 05SD801

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	274.259	274.328E	274.289	274.302	---	274.084	---	---	---	1
2	---	---	---	274.259	274.329	274.289	274.302	---	274.084	---	---	---	2
3	---	---	---	274.259	274.338	274.305	274.305	---	274.063	---	---	---	3
4	---	---	---	274.262	274.351	274.302	274.296	---	274.040	---	---	---	4
5	---	---	---	---	274.351	274.305	274.299	---	274.040	---	---	---	5
6	---	---	---	---	274.344	274.299	274.296	---	274.040	---	---	---	6
7	---	---	---	---	274.341	274.296	274.293	---	274.034	---	---	---	7
8	---	---	---	---	274.341	274.296	274.287	---	274.030	---	---	---	8
9	---	---	---	---	274.341	274.296	274.287	---	274.034	---	---	---	9
10	---	---	---	---	274.341	274.290	274.290	---	274.034	---	---	---	10
11	---	---	---	---	274.332	274.287	274.293	---	274.034	---	---	---	11
12	---	---	---	---	274.332	274.280	274.287	---	274.034	---	---	---	12
13	---	---	---	---	274.347	274.280	274.283	---	274.030	---	---	---	13
14	---	---	---	---	274.344	274.287	274.280	---	274.030	---	---	---	14
15	---	---	---	---	274.344	274.287	274.277	---	274.024	---	---	---	15
16	---	---	---	---	274.344	274.290	274.271	---	274.024	---	---	---	16
17	---	---	---	---	274.341	274.290	274.262	---	274.027	---	---	---	17
18	---	---	---	---	274.341	274.283	274.259	---	274.024	---	---	---	18
19	---	---	---	---	274.344	274.280	274.256	---	274.015	---	---	---	19
20	---	---	---	---	274.341	274.280	274.253	---	---	---	---	---	20
21	---	---	---	---	274.338	274.287	274.247	---	---	---	---	---	21
22	---	---	274.232	---	274.332	274.305	---	---	---	---	---	---	22
23	---	---	274.232	---	274.328	274.308	---	---	---	---	---	---	23
24	---	---	274.232	---	274.326	274.305	---	---	---	---	---	---	24
25	---	---	274.232	---	274.320	274.311	---	---	---	274.082	---	---	25
26	---	---	274.232	---	274.317	274.308	---	274.085	---	---	---	---	26
27	---	---	274.232	---	274.311	274.305	---	274.078	---	---	---	---	27
28	---	---	274.232	---	274.305	274.302	---	274.075	---	---	---	---	28
29	---		274.232	---	274.305	274.299	---	274.072	---	---	---	---	29
30	---		274.235	---	274.302	274.299	---	274.070	---	---		---	30
31	---		274.259		274.299		---	274.084		---		---	31
MEAN	---	---	---	---	274.332	274.295	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	274.351	274.311	---	---	---	---	---	---	MAX
MIN	---	---	---	---	274.299	274.280	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 58 58 N
LONG 97 48 11 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1988	0.0808	36.8	36.5	28.8	26.0	3.80	7.72	---	---	1
2	---	---	0.1898	0.0728	38.5	36.3	33.6	24.5	3.69	7.77	---	---	2
3	---	---	0.1628	0.0638	39.5	37.7	39.3	22.9	3.48	7.77	---	---	3
4	---	---	0.1898	0.0818	40.6	44.7	42.3	21.6	3.20	7.67	---	---	4
5	---	---	0.2078	0.0818	40.2	48.5	42.7	20.1	3.07	8.15	---	---	5
6	---	---	0.1808	0.0938	39.4	48.3	42.0	18.8	3.82	7.94	---	---	6
7	---	---	0.1538	0.2258	38.0	46.5	39.4	17.2	4.17	7.82	---	---	7
8	---	---	0.0728	0.4148	37.0	46.4	36.5	15.6	4.51	7.69	---	---	8
9	---	---	0.0368	0.7868	36.1	45.2	34.3	14.4	4.67	7.59	---	---	9
10	---	---	0.0188	3.37 B	36.3	44.7	32.6	13.4	5.28	7.66	---	---	10
11	---	---	0.0188	7.03 B	35.8	44.0	32.5	12.2	7.44	7.85	---	---	11
12	---	---	0.0638	8.82 B	35.7	44.3	33.0	11.3	8.02	7.54	---	---	12
13	---	---	0.0908	8.41 B	35.0	45.5	34.2	10.6	8.43	7.61	---	---	13
14	---	---	0.0728	7.29 B	35.8	48.4	34.0	9.82	8.50	7.67	---	---	14
15	---	---	0.1178	6.68 B	38.9	48.3	36.7	8.83	8.31	7.58	---	---	15
16	---	---	0.0638	6.43 B	42.7	48.8	42.3	7.98	8.08	7.60	---	---	16
17	---	---	0.0458	8.38 B	47.9	47.7	48.9	7.40	8.11	7.34	---	---	17
18	---	---	0.0188	8.01 B	51.3	48.1	48.6	8.88	8.35	7.01	---	---	18
19	---	---	0.0638	8.27 B	52.7	44.9	50.5	7.13	8.83	8.92	---	---	19
20	---	---	0.0458	9.58 B	53.4	43.9	48.7	6.83	9.22	8.84	---	---	20
21	---	---	0.0728	19.4 B	55.3	42.4	48.3	6.83	9.53	8.77	---	---	21
22	---	---	0.0638	31.1 B	56.8	40.7	46.8	6.52	9.51	8.68	---	---	22
23	---	---	0.0998	46.4 B	57.0	38.8	44.8	6.15	9.27	8.78	---	---	23
24	---	---	0.1268	58.5 B	55.3	36.8	42.3	5.70	9.08	8.73	---	---	24
25	---	---	0.1538	43.9 B	52.8	35.3	39.8	5.42	8.84	8.62	---	---	25
26	---	---	0.1268	45.5	50.0	33.9	37.7	5.00	8.14	8.58	---	---	26
27	---	---	0.1538	44.6	47.1	32.7	35.3	4.62	8.08	8.57	---	---	27
28	---	---	0.1538	41.3	44.6	31.6	33.0	4.31	7.89	8.48	---	---	28
29	---		0.1358	37.4	42.1	30.4	30.8	4.12	7.80	8.35	---	---	29
30	---		0.1178	35.8	40.5	29.1	29.1	3.89	7.58	8.30	---	---	30
31	---		0.1448		38.4		27.7	3.89		8.25		---	31
TOTAL	---	---	3.339	484.111	1 353.5	1 248.9	1 195.8	339.80	209.18	223.81	---	---	TOTAL
MEAN	---	---	0.108	16.1	43.7	41.7	38.6	11.0	6.97	7.22	---	---	MEAN
MAX	---	---	0.207	58.5	57.0	48.3	50.5	26.0	9.53	8.15	---	---	MAX
MIN	---	---	0.018	0.083	35.7	29.1	27.7	3.89	3.07	8.25	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 20.6
MAXIMUM DAILY, 58.58 ON APR 24
MINIMUM DAILY, 0.0188 ON MAR 10

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 15 N
LONG 101 05 30 W
DRAINAGE AREA, 3 550 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	103 000
FEB	---	AUG	29 400
MAR	288	SEP	18 100
APR	41 800	OCT	19 300
MAY	117 000	NOV	---
JUN	108 000	DEC	---

TOTAL DISCHARGE, 437 000 dam³

OXFORD LAKE AT OXFORD HOUSE - STATION NO. 04AA002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	187.362	187.384	187.303	187.994	188.049	187.810	187.627	187.518	187.435	187.425	1
2	---	---	187.370	187.382	187.300	188.018	188.043	187.805	187.603	187.515	187.432	187.422	2
3	---	---	187.363	187.352	187.302	188.039	187.993	187.794	187.636	187.500	187.435	187.417	3
4	---	---	187.363	187.350	187.299	188.068	187.950	187.798	187.617	187.501	187.439	187.410	4
5	---	---	187.382	187.352	187.308	188.086	187.970	187.765	187.583	187.505	187.455	187.414	5
6	---	---	187.351	187.358	187.309	188.107	187.954	187.749	187.576	187.500	187.427	187.412	6
7	---	---	187.371	187.353	187.310	188.118	187.941	187.734	187.570	187.498	187.394	187.417	7
8	---	---	187.378	187.349	187.316	188.133	187.935	187.711	187.586	187.495	187.420	187.417	8
9	---	---	187.378	187.355	187.324	188.140	187.927	187.718	187.545	187.493	187.430	187.413	9
10	187.378A	---	187.371	187.353	187.345	188.120	187.924	187.707	187.533	187.490	187.433	187.406	10
11	---	---	187.388	187.347	187.377	188.077	187.919	187.702	187.589	187.475	187.433	187.407	11
12	---	---	187.378	187.347	187.387	188.071	187.931	187.695	187.555	187.487	187.423	187.417	12
13	---	---	187.384	187.342	187.409	188.084	187.923	187.701	187.535	187.480	187.418	187.419	13
14	---	---	187.383	187.338	187.430	188.092	187.911	187.688	187.535	187.470	187.404	187.413	14
15	---	---	187.374	187.330	187.439	188.090	187.883	187.688	187.505	187.474	187.418	187.418	15
16	---	---	187.383	187.317	187.454	188.107	187.901	187.668	187.505	187.478	187.417	187.422	16
17	---	---	187.378	187.313	187.483	188.105	187.914	187.673	187.502	187.498	187.408	187.424	17
18	---	---	187.374	187.312	187.481	188.102	187.902	187.659	187.532	187.474	187.405	187.424	18
19	---	---	187.374	187.310	187.519	188.097	187.891	187.664	187.544	187.471	187.407	187.425	19
20	---	---	187.386	187.310	187.547	188.099	187.883	187.657	187.527	187.484	187.382	187.423	20
21	---	---	187.381	187.310	187.583	188.104	187.863	187.658	187.520	187.474	187.380	187.420	21
22	---	---	187.380	187.308	187.625	188.091	187.882	187.655	187.511	187.487	187.405	187.428	22
23	---	---	187.386	187.308	187.682	188.093	187.859	187.642	187.520	187.487	187.409	187.428	23
24	---	187.374A	187.387	187.296	187.701	188.088	187.866	187.627	187.518	187.488	187.424	187.422	24
25	---	187.378	187.383	187.293	187.733	188.036	187.855	187.641	187.522	187.485	187.426	187.418	25
26	---	187.370	187.377	187.300	187.743	188.045	187.853	187.645	187.518	187.480	187.431	187.423	26
27	---	187.364	187.378	187.305	187.805	188.063	187.861	187.642	187.517	187.486	187.434	187.428	27
28	---	187.370	187.371	187.302	187.859	188.086	187.858	187.635	187.529	187.488	187.431	187.426	28
29	---		187.369	187.307	187.891	188.051	187.841	187.633	187.532	187.485	187.428	187.422	29
30	---		187.388	187.304	187.928	188.026	187.824	187.627	187.518	187.483	187.420	187.417	30
31	---		187.358		187.983		187.829	187.630		187.483		187.416	31
MEAN	---	---	187.373	187.328	187.520	188.080	187.907	187.680	187.547	187.478	187.420	187.419	MEAN
MAX	---	---	187.391	187.384	187.983	188.140	188.049	187.810	187.636	187.518	187.455	187.428	MAX
MIN	---	---	187.351	187.293	187.299	187.994	187.824	187.627	187.502	187.483	187.380	187.406	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 57 10 N
LONG 85 15 00 W

A - MANUAL GAUGE

NATURAL FLOW

MAXIMUM DAILY, 188.140 ON JUN 9
MINIMUM DAILY, 187.293 ON APR 25
MAXIMUM INSTANTANEOUS,
188.185 AT 09:35 CST ON JUN 10

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM
APPLY -183.885 m ADJUSTMENT TO CONVERT TO ASSUMED DATUM

OXTAIL CREEK NEAR CYPRESS RIVER - STATION NO. 05MH012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.32 B	0.435	0.076	0	0	0	0	---	---	1
2	---	---	0 B	4.58 B	0.402	0.056	0	0	0	0	---	---	2
3	---	---	0 B	4.71 B	0.365	0.054	0.007	0	0	0	---	---	3
4	---	---	0 B	5.35 B	0.319	0.045	0.018	0	0	0	---	---	4
5	---	---	0 B	7.12 B	0.279	0.040	0.049	0	0	0	---	---	5
6	---	---	0 B	6.84 B	0.257	0.090	0.058	0	0	0	---	---	6
7	---	---	0 B	5.70 B	0.225	0.119	0.052	0	0	0	---	---	7
8	---	---	0 B	4.62 B	0.214	0.141	0.045	0	0	0	---	---	8
9	---	---	0 B	4.15 B	0.197	0.177	0.029	0	0	0	---	---	9
10	---	---	0.0028	3.29	0.205	0.197	0.020	0	0	0	---	---	10
11	---	---	0.0268	2.73	0.217	0.143	0.003	0	0	0	---	---	11
12	---	---	0.0958	2.29	0.237	0.105	0.001	0	0	0	---	---	12
13	---	---	0.2998	1.90	0.319	0.090	0	0	0	0	---	---	13
14	---	---	0.3648	1.70	0.356	0.082	0	0	0	0	---	---	14
15	---	---	0.2938	1.37	0.361	0.091	0	0	0	0	---	---	15
16	---	---	0.2138	1.35	0.347	0.140	0	0	0	0	---	---	16
17	---	---	0.1648	1.32	0.313	0.171	0	0	0	0	---	---	17
18	---	---	0.1308	1.23	0.276	0.135	0	0	0	0	---	---	18
19	---	---	0.0848	1.17	0.294	0.138	0	0	0	0	---	---	19
20	---	---	0.0498	1.12	0.309	0.118	0	0	0	0	---	---	20
21	---	---	0.0168	1.09	0.315	0.095	0	0	0	0	---	---	21
22	---	---	0.0058	0.980	0.281	0.151	0	0	0	0	---	---	22
23	---	---	0.0028	0.893	0.262	0.124	0	0	0	0	---	---	23
24	---	---	0.0158	0.834	0.229	0.103	0	0	0	0	---	---	24
25	---	---	0.0318	0.773	0.197	0.057	0	0	0	0	---	---	25
26	---	---	0.0848	0.724	0.183	0.011	0	0	0	0	---	---	26
27	---	---	0.0388	0.685	0.155	0.004	0	0	0	0	---	---	27
28	---	---	0.0098	0.613	0.130	0.001	0	0	0	0	---	---	28
29	---		0.0268	0.546	0.110	0	0	0	0	0	---	---	29
30	---		0.6508	0.475	0.101	0	0	0	0	0	---	---	30
31	---		3.16 B		0.090		0	0		0		---	31
TOTAL	---	---	5.765	74.253	7.979	2.756	0.282	0	0	0	---	---	TOTAL
MEAN	---	---	0.186	2.48	0.257	0.092	0.009	0	0	0	---	---	MEAN
MAX	---	---	3.16	7.12	0.435	0.197	0.058	0	0	0	---	---	MAX
MIN	---	---	0	0.475	0.090	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.372
MAXIMUM DAILY, 7.120 ON APR 5
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
8.208 AT 17:56 CST ON APR 5

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 28 40 N
LONG 99 09 20 W
DRAINAGE AREA, 435 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	24.4
FEB	---	AUG	0
MAR	498	SEP	0
APR	6 420	OCT	0
MAY	669	NOV	---
JUN	238	DEC	---

TOTAL DISCHARGE, 7 870 dam³

PANSY DRAIN NEAR SARTO - STATION NO. 05QE014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.28 B	0.087	0.019	---	---	---	---	---	---	1
2	---	---	0 B	1.29 B	0.076	0.018	---	---	---	---	---	---	2
3	---	---	0 B	1.32 B	0.062	0.018	---	---	---	---	---	---	3
4	---	---	0 B	1.54 B	0.043	0.016	---	---	---	---	---	---	4
5	---	---	0 B	2.12 B	0.046	0.015	---	---	---	---	---	---	5
6	---	---	0.1288	2.09 B	0.053	0.014	---	---	---	---	---	---	6
7	---	---	0.5278	1.87 B	0.062	0.013	---	---	---	---	---	---	7
8	---	---	0.6978	1.73 B	0.073	0.012	---	---	---	---	---	---	8
9	---	---	1.28 B	1.61 B	0.082	0.011	---	---	---	---	---	---	9
10	---	---	1.27 B	1.78	0.073	0.010	---	---	---	---	---	---	10
11	---	---	1.32 B	1.65	0.048	0.010	---	---	---	---	---	---	11
12	---	---	1.82 B	1.44 B	0.071	0.010	---	---	---	---	---	---	12
13	---	---	0.8688	1.12 B	0.110	0.013	---	---	---	---	---	---	13
14	---	---	0.4508	0.8728	0.083	0.012	---	---	---	---	---	---	14
15	---	---	0.0898	1.02 B	0.087	0.020	---	---	---	---	---	---	15
16	---	---	0.0498	1.03 B	0.073	0.021	---	---	---	---	---	---	16
17	---	---	0.0428	0.936	0.058	0.018	---	---	---	---	---	---	17
18	---	---	0.0348	0.750	0.042	0.015	---	---	---	---	---	---	18
19	---	---	0.0308	0.504	0.058	0.013	---	---	---	---	---	---	19
20	---	---	0.0298	0.351	0.052	0.012	---	---	---	---	---	---	20
21	---	---	0.0298	0.287	0.043	0.011	---	---	---	---	---	---	21
22	---	---	0.0308	0.227	0.036	0.018	---	---	---	---	---	---	22
23	---	---	0.0328	0.191	0.033	0.017	---	---	---	---	---	---	23
24	---	---	0.0388	0.172	0.028	0.014	---	---	---	---	---	---	24
25	---	---	0.0478	0.159	0.026	0.013	---	---	---	---	---	---	25
26	---	---	0.0648	0.150	0.024	0.011	---	---	---	---	---	---	26
27	---	---	0.0888	0.148	0.022	0.010	---	---	---	---	---	---	27
28	---	---	0.1088	0.124	0.023	0.008	---	---	---	---	---	---	28
29	---		0.1588	0.112	0.022	0.008	---	---	---	---	---	---	29
30	---		0.4258	0.101	0.021	0.014	---	---	---	---	---	---	30
31	---		0.8638		0.020		---	---		---		---	31
TOTAL	---	---	10.440	28.185	1.843	0.415	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.337	0.940	0.059	0.014	---	---	---	---	---	---	MEAN
MAX	---	---	1.92	2.12	0.110	0.021	---	---	---	---	---	---	MAX
MIN	---	---	0	0.101	0.020	0.008	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.333
MAXIMUM DAILY, 2.120 ON APR 5
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
2.520 AT 11:26 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 23 05 N
LONG 96 43 53 W
DRAINAGE AREA, 38.9 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	902	SEP	---
APR	2 440	OCT	---
MAY	142	NOV	---
JUN	35.8	DEC	---

TOTAL DISCHARGE, 3 520 dam³

PARTRIDGE CREEK NEAR ST. MARTIN - STATION NO. 05LM002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	243.377	243.854	244.052	---	---	---	---	---	---	1
2	---	---	---	243.465	243.840	244.075	---	---	---	---	---	---	2
3	---	---	---	243.738	243.825	244.084	---	---	---	---	---	---	3
4	---	---	---	243.898	243.847	244.051	---	---	---	---	---	---	4
5	---	---	---	244.058	243.932	244.052	---	---	---	---	---	---	5
6	---	---	---	244.084	244.014	244.047	---	---	---	---	---	---	6
7	---	---	---	244.124	244.064	244.086	---	---	---	---	---	---	7
8	---	---	---	244.294	244.139	244.090	---	---	---	---	---	---	8
9	---	---	---	244.608	244.187	244.135	---	---	---	---	---	---	9
10	---	---	---	244.763	244.201	244.179	---	---	---	---	---	---	10
11	---	---	---	244.748	244.118	244.249	---	---	---	---	---	---	11
12	---	---	---	244.630	244.083	244.318	---	---	---	---	---	---	12
13	---	---	---	244.611	244.105	244.334	---	---	---	---	---	---	13
14	---	---	---	244.293	244.121	244.351	---	---	---	---	---	---	14
15	---	---	---	244.229	244.184	244.288	---	---	---	---	---	---	15
16	---	---	243.285A	244.198	244.193	244.310	---	---	---	---	---	---	16
17	---	---	243.281	244.182	244.203	244.327	---	---	---	---	---	---	17
18	---	---	243.281	244.208	244.225	244.388	---	---	---	---	---	---	18
19	---	---	243.284	244.340	244.158	244.417	---	---	---	---	---	---	19
20	---	---	243.286	244.611	244.184	244.412	---	---	---	---	---	---	20
21	---	---	243.284	244.626	244.188	244.421	---	---	---	---	---	---	21
22	---	---	243.284	244.398	244.189	244.414	---	---	---	---	---	---	22
23	---	---	243.284	244.230	244.180	244.412	---	---	---	---	---	---	23
24	---	---	243.285	244.134	244.186	244.407	---	---	---	---	---	---	24
25	---	---	243.287	244.080	244.171	244.407	---	---	---	---	---	---	25
26	---	---	243.283	244.015	244.207	244.392	---	---	---	---	---	---	26
27	---	---	243.282	243.949	244.189	244.380	---	---	---	---	---	---	27
28	---	---	243.284	243.897	244.118	244.390	---	---	---	---	---	---	28
29	---		243.284	243.878	244.078	244.358	---	---	---	---	---	---	29
30	---		243.313	243.863	244.034	244.388	---	---	---	---	---	---	30
31	---		243.401		244.033		---	---		---		---	31
MEAN	---	---	---	244.174	244.098	244.276	---	---	---	---	---	---	MEAN
MAX	---	---	---	244.763	244.225	244.421	---	---	---	---	---	---	MAX
MIN	---	---	---	243.377	243.825	244.047	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1983

MAXIMUM DAILY, 244.763 ON APR 10

MAXIMUM INSTANTANEOUS,
244.848 AT 13:12 CST ON APR 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 42 30 N
LONG 98 39 30 W

A - MANUAL GAUGE

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

NATURAL FLOW

DRAINAGE AREA,
104 km²

PELICAN CREEK NEAR BIRNIE - STATION NO. 05LL027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0.158	0.076	0.184	0.015	0	0	---	---	1
2	---	---	0B	0 B	0.141	0.073	0.180	0.013	0	0	---	---	2
3	---	---	0B	0 B	0.125	0.083	0.169	0.011	0	0	---	---	3
4	---	---	0B	0 B	0.101	0.084	0.153	0.009	0	0	---	---	4
5	---	---	0B	0 B	0.092	0.078	0.141	0.009	0	0	---	---	5
6	---	---	0B	0 B	0.080	0.071	0.132	0.008	0	0	---	---	6
7	---	---	0B	0 B	0.068	0.064	0.126	0.007	0	0	---	---	7
8	---	---	0B	0 B	0.060	0.060	0.122	0.007	0	0	---	---	8
9	---	---	0B	0.0128	0.059	0.056	0.124	0.007	0	0	---	---	9
10	---	---	0B	0.0408	0.064	0.053	0.161	0.007	0	0	---	---	10
11	---	---	0B	0.0478	0.057	0.048	0.157	0.006	0	0	---	---	11
12	---	---	0B	0.0488	0.052	0.043	0.138	0.005	0	0	---	---	12
13	---	---	0B	0.0508	0.053	0.043	0.130	0.005	0	0	---	---	13
14	---	---	0B	0.0498	0.047	0.040	0.125	0.005	0	0	---	---	14
15	---	---	0B	0.0498	0.046	0.038	0.121	0.004	0	0	---	---	15
16	---	---	0B	0.0488	0.052	0.033	0.136	0.003	0	0	---	---	16
17	---	---	0B	0.0478	0.287	0.028	0.140	0.003	0	0	---	---	17
18	---	---	0B	0.1578	0.510	0.026	0.121	0.002	0	0	---	---	18
19	---	---	0B	0.3418	0.407	0.026	0.108	0.001	0	0	---	---	19
20	---	---	0B	0.852	0.245	0.025	0.098	0	0	0	---	---	20
21	---	---	0B	0.723	0.185	0.021	0.084	0	0	0	---	---	21
22	---	---	0B	0.689	0.150	0.024	0.072	0	0	0	---	---	22
23	---	---	0B	0.875	0.130	0.021	0.065	0	0	0	---	---	23
24	---	---	0B	0.884	0.123	0.028	0.057	0	0	0	---	---	24
25	---	---	0B	0.419	0.107	0.039	0.050	0	0	0	---	---	25
26	---	---	0B	0.441	0.108	0.053	0.043	0	0	0	---	---	26
27	---	---	0B	0.437	0.105	0.068	0.037	0	0	0	---	---	27
28	---	---	0B	0.328	0.099	0.090	0.029	0	0	0	---	---	28
29	---		0B	0.251	0.094	0.113	0.025	0	0	0	---	---	29
30	---		0B	0.198	0.087	0.178	0.024	0	0	0	---	---	30
31	---		0B		0.080		0.017	0		0		---	31
TOTAL	---	---	0	6.794	3.873	1.882	3.227	0.129	0	0	---	---	TOTAL
MEAN	---	---	0	0.226	0.125	0.058	0.104	0.004	0	0	---	---	MEAN
MAX	---	---	0	0.884	0.510	0.178	0.188	0.015	0	0	---	---	MAX
MIN	---	---	0	0	0.046	0.021	0.017	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.088
MAXIMUM DAILY, 0.884 ON APR 24
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
1.92 AT 20:48 CST ON APR 23

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 28 35 N
LONG 98 28 05 W
DRAINAGE AREA, 9.07 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	278
FEB	---	AUG	11.1
MAR	0	SEP	0
APR	587	OCT	0
MAY	343	NOV	---
JUN	145	DEC	---

TOTAL DISCHARGE, 1 370 dam³

PELICAN LAKE NEAR WINNETTE - STATION NO. 05OA802

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	411.090E	411.092E	411.090E	411.137E	411.274	411.277	---	---	411.043	410.993	410.980	---	1
2	411.090E	411.092E	411.090	411.137	411.279	411.277	---	---	411.038E	411.013	410.960E	---	2
3	411.089E	411.092	411.090	411.140	411.278	411.278E	---	---	411.030E	411.013	410.980E	---	3
4	411.088E	411.091E	411.090E	411.146E	411.279	411.276	---	---	411.023	410.980	410.960E	---	4
5	411.089E	411.089E	411.090	411.153E	411.278	411.274	---	---	411.023E	410.980E	410.980	---	5
6	411.089E	411.088E	411.094	411.160	411.278E	411.271	---	---	411.023	410.980	410.970	---	6
7	411.088E	411.087	411.095E	---	411.279	411.269	---	---	411.013E	410.980	410.970E	---	7
8	411.088E	411.060	411.095E	---	411.278E	411.269E	411.236	---	411.003	410.980E	410.970	410.970	8
9	411.088E	411.088	411.096E	---	411.277E	411.269	411.236	---	411.003	410.980	410.960	---	9
10	411.088	411.087E	411.097	---	411.277E	411.272	411.232	---	410.998E	410.980	---	---	10
11	411.089E	411.088E	411.099E	---	411.276	411.270	411.230	---	410.993	411.010	---	---	11
12	411.091	411.086	411.102	411.256	411.261E	411.260E	411.228	---	410.993	410.990	---	---	12
13	411.090E	411.084E	411.117E	411.257E	411.267E	411.250E	411.221	---	410.993	410.990	---	---	13
14	411.090E	411.083E	411.132	411.258	411.292	411.240E	411.216	---	411.003E	410.985E	---	---	14
15	411.090	411.082	411.132E	411.265E	411.292	411.230	411.199	---	411.013	410.980	---	---	15
16	411.089	411.084E	411.132	411.272	411.292	---	411.201	---	411.023	410.980E	411.034	---	16
17	411.090	411.086	411.132E	411.265E	411.293	---	---	411.028	411.013E	410.980	---	---	17
18	411.089E	411.086E	411.132E	411.259	411.282E	---	---	411.033	411.003E	410.980	---	---	18
19	411.088	411.086	411.132	411.310	411.291	---	---	411.033	410.993	410.977E	---	410.980	19
20	411.088E	411.085E	411.132E	411.311	411.290E	---	---	411.021	410.963	410.973E	---	---	20
21	411.088E	411.085E	411.132E	411.278	411.290	---	---	411.021	410.983	410.970	---	---	21
22	411.088	411.085	411.132	411.282	411.290	---	---	411.028	410.983	410.970E	---	---	22
23	411.087E	411.085E	411.134E	411.282	411.290	---	---	411.026	410.983	410.970	---	---	23
24	411.087	411.086	411.136E	411.282E	411.287	---	---	411.043	410.983	410.970E	---	---	24
25	411.088E	411.088E	411.138	411.283	411.288E	---	---	411.063	410.983	410.970E	---	---	25
26	411.090	411.090	411.133	411.283	411.289	---	411.215	411.028	410.983	410.970	---	---	26
27	411.092E	411.090E	411.136E	411.283	411.289	---	---	411.033	410.983	410.985	---	---	27
28	411.095	411.090	411.140	411.289	411.288	---	---	411.043	410.983	410.985	---	---	28
29	411.094E		411.139E	411.267	411.283	---	---	411.038	410.973	410.987E	410.967	---	29
30	411.093E		411.139	411.267	411.278	---	---	411.038	410.973	410.970	---	---	30
31	411.092		411.138E		411.277E		---	411.040E		410.985E		---	31
MEAN	411.090	411.087	411.118	---	411.284	---	---	---	410.997	410.980	---	---	MEAN
MAX	411.095	411.092	411.140	---	411.293	---	---	---	411.043	411.013	---	---	MAX
MIN	411.087	411.080	411.090	---	411.274	---	---	---	410.983	410.985	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 411.311 ON APR 20

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 24 00 N
LONG 99 36 20 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

DRAINAGE AREA, 461 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05OA010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1118	5.38 B	0.700	0.445	0.058	0.005	0.001	0.001	---	---	1
2	---	---	0.0838	5.68 B	0.584	0.400	0.081	0.005	0.001	0.001	---	---	2
3	---	---	0.0488	5.03 B	0.449	0.373	0.071	0.005	0.001	0.001	---	---	3
4	---	---	0.0418	4.77 B	0.377	0.347	0.081	0.005	0.001	0.001	---	---	4
5	---	---	0.0398	5.38 B	0.318	0.326	0.062	0.004	0.001	0.001	---	---	5
6	---	---	0.2688	5.43 B	0.245	0.318	0.055	0.003	0.001	0.001	---	---	6
7	---	---	0.5308	5.28 B	0.208	0.295	0.048	0.003	0.001	0.001	---	---	7
8	---	---	0.7558	5.44	0.172	0.278	0.045	0.003	0.001	0.001	---	---	8
9	---	---	0.8448	4.80	0.167	0.255	0.043	0.003	0.001	0.001	---	---	9
10	---	---	0.5858	4.23	0.158	0.272	0.047	0.002	0.001	0.001	---	---	10
11	---	---	0.3478	3.67	0.144	0.230	0.041	0.001	0.001	0.001	---	---	11
12	---	---	0.2328	3.52	0.194	0.190	0.039	0.001	0.001	0.001	---	---	12
13	---	---	0.1688	3.33	0.240	0.159	0.030	0.001	0.001	0.001	---	---	13
14	---	---	1.50 B	2.27	0.311	0.139	0.028	0.001	0.001	0.001	---	---	14
15	---	---	5.26 B	1.68	0.770	0.131	0.026	0.001	0.003	0.001	---	---	15
16	---	---	3.19 B	1.48	1.29	0.114	0.025	0.001	0.001	0.001	---	---	16
17	---	---	2.27 B	1.02	1.38	0.081	0.023	0.001	0.001	0.001	---	---	17
18	---	---	1.61 B	0.877	1.19	0.078	0.021	0.001	0.001	0.001	---	---	18
19	---	---	1.15 B	0.736	1.11	0.079	0.019	0.001	0.001	0.001	---	---	19
20	---	---	0.5858	0.716	1.04	0.067	0.018	0.001	0.001	0.001	---	---	20
21	---	---	0.2688	0.678	1.08	0.056	0.018	0.001	0.001	0.001	---	---	21
22	---	---	0.1118	0.825	1.12	0.100	0.014	0.001	0.001	0.001	---	---	22
23	---	---	0.0328	1.21	1.16	0.082	0.013	0.001	0.001	0.001	---	---	23
24	---	---	0.0188	1.33	1.08	0.067	0.011	0.001	0.001	0.001	---	---	24
25	---	---	0.0078	1.37	0.950	0.066	0.010	0.001	0.001	0.001	---	---	25
26	---	---	0.0058	1.26	0.866	0.050	0.010	0.001	0.001	0.001	---	---	26
27	---	---	0.0108	1.16	0.770	0.040	0.008	0.001	0.001	0.001	---	---	27
28	---	---	0.0848	1.09	0.675	0.035	0.008	0.001	0.001	0.001	---	---	28
29	---		0.8418	0.916	0.677	0.037	0.008	0.001	0.001	0.001	---	---	29
30	---		1.43 B	0.825	0.522	0.061	0.008	0.001	0.001	0.001	---	---	30
31	---		3.05 B		0.490		0.008	0.001		0.001		---	31
TOTAL	---	---	25.540	82.494	20.369	5.184	0.940	0.051	0.032	0.031	---	---	TOTAL
MEAN	---	---	0.824	2.75	0.657	0.173	0.030	0.002	0.001	0.001	---	---	MEAN
MAX	---	---	5.26	5.68	1.38	0.445	0.071	0.006	0.003	0.001	---	---	MAX
MIN	---	---	0.005	0.678	0.144	0.035	0.008	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.550
MAXIMUM DAILY, 5.680 ON APR 2
MINIMUM DAILY, 0.001 ON AUG 11
MAXIMUM INSTANTANEOUS,
5.330 AT 16:05 CST ON APR 2

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 50 N
LONG 99 27 44 W
DRAINAGE AREA, 544 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	81.2
FEB	---	AUG	5.27
MAR	2 210	SEP	2.76
APR	7 130	OCT	2.68
MAY	1 760	NOV	---
JUN	448	DEC	---

TOTAL DISCHARGE, 11 600 dam³

PEMBINA RIVER AT NECHE - STATION NO. 05DC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.5108	0.1768	0.2048	8.568	18.6	8.06	4.16	1.05	0.425	0.244	1.10	0.178	1
2	0.5108	0.1618	0.3968	19.8 B	18.3	8.86	3.88	0.991	0.388	0.311	1.10	0.178	2
3	0.5108	0.1598	0.7368	19.8 B	17.7	11.9	3.88	1.08	0.388	0.398	1.10	0.187	3
4	0.5108	0.1598	1.10 B	22.5 B	17.4	11.3	3.68	0.934	0.388	0.398	1.10	0.159	4
5	0.5108	0.1448	1.81 B	31.7 B	16.8	10.7	3.65	0.878	0.388	0.398	1.10	0.147	5
6	0.5108	0.1388	2.56 B	39.4 B	16.1	10.4	3.40	0.821	0.388	0.568	1.10	0.144	6
7	0.5108	0.1678	2.27 B	42.2 B	15.3	10.2	3.20	0.851	0.388	0.851	1.05	0.144	7
8	0.4538	0.1768	2.27 B	42.2 B	15.5	9.97	2.80	0.851	0.388	0.708	0.736	0.1448	8
9	0.5103	0.1908	2.27 B	46.3 B	15.5	9.80	2.63	0.680	0.388	0.708	0.708	0.1228	9
10	0.4818	0.1908	2.41 B	44.2 B	14.8	9.29	2.46	0.708	0.425	0.708	0.851	0.0748	10
11	0.4818	0.1908	2.55 B	42.2 B	13.7	8.95	2.27	0.736	0.425	0.736	0.510	0.0578	11
12	0.4818	0.1908	3.96 B	37.8 B	13.0	8.72	2.12	0.736	0.425	0.851	0.266	0.0518	12
13	0.4818	0.1768	4.50 B	27.8	12.8	8.76	2.04	0.708	0.425	0.566	0.266	0.0518	13
14	0.4818	0.1768	13.3 B	23.1	13.8	8.47	1.93	0.708	0.425	0.566	0.340	0.0518	14
15	0.4538	0.1768	15.3 B	24.0	13.4	8.24	1.87	0.708	0.388	0.566	0.481	0.0518	15
16	0.4258	0.1618	10.7 B	20.1	12.7	7.93	1.81	0.680	0.388	0.708	0.425	0.0458	16
17	0.4258	0.1598	8.57 B	19.8	12.5	7.78	1.80	0.823	0.386	0.708	0.368	0.0408	17
18	0.3968	0.1598	9.29 B	19.8	12.8	7.45	1.67	0.895	0.386	0.708	0.368	0.0408	18
19	0.2468	0.1448	8.10 B	21.0	12.1	7.02	1.62	0.538	0.386	0.708	0.298	0.0288	19
20	0.2358	0.1448	8.86 B	21.0	11.8	6.75	1.64	0.481	0.388	0.708	0.538	0.0258	20
21	0.2358	0.1448	8.23 B	21.2	11.3	6.55	1.62	0.481	0.388	0.708	0.425	0.0248	21
22	0.2048	0.1302	8.85 B	21.4	10.9	6.78	1.62	0.481	0.340	0.708	0.238	0.0248	22
23	0.2048	0.1308	8.85 B	21.2	10.8	6.84	1.19	0.481	0.311	0.708	0.283	0.0238	23
24	0.2048	0.1168	5.95 B	21.2	10.2	6.87	1.18	0.481	0.268	0.726	0.283	0.0208	24
25	0.1908	0.1168	4.62 B	20.8	10.0	6.72	1.16	0.481	0.268	0.783	0.311	0.0188	25
26	0.1908	0.1168	3.94 B	20.8	9.88	6.30	1.13	0.481	0.288	0.850	0.184	0.0188	26
27	0.1908	0.0988	3.65 B	21.2	9.43	6.67	1.10	0.425	0.288	0.850	0.178	0.0178	27
28	0.1908	0.1198	3.80 B	20.5	9.00	6.53	1.10	0.425	0.288	1.05	0.178	0.0188	28
29	0.1908		3.11 B	19.4	8.67	6.22	1.13	0.481	0.235	1.10	0.178	0.0188	29
30	0.1788		3.08 B	19.2	8.27	6.11	1.08	0.452	0.235	1.10	0.178	0.0188	30
31	0.1788		3.65 B		8.10		1.05	0.453		1.10		0.0148	31
TOTAL	11.287	4.303	151.336	779.48	400.55	233.32	88.15	20.080	10.881	21.412	18.108	2.098	TOTAL
MEAN	0.383	0.154	4.88	26.0	12.9	7.78	2.87	0.648	0.356	0.891	0.537	0.068	MEAN
MAX	0.510	0.180	15.3	45.3	18.6	11.9	6.16	1.08	0.425	1.10	1.10	0.178	MAX
MIN	0.178	0.099	0.204	8.58	8.10	6.11	1.05	0.425	0.235	0.244	0.178	0.014	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.70
MAXIMUM DAILY, 46.38 ON APR 9
MINIMUM DAILY, 0.0148 ON DEC 31

SUMMARY FOR THE YEAR 1983

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 20 N
LONG 97 33 05 W
DRAINAGE AREA, 8 470 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	973	JUL	5 540
FEB	372	AUG	1 730
MAR	13 100	SEP	521
APR	67 300	OCT	1 850
MAY	34 500	NOV	1 350
JUN	20 200	DEC	181

TOTAL DISCHARGE, 148 000 dam³

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05DB023

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.29 B	0.4578	0.2288	4.548	11.4	2.86	1.02	0.137	0.024	0.023	0.010	0.0138	1
2	1.25 B	0.4498	0.2208	4.428	10.9	2.78	1.01	0.118	0.016	0.025	0.012	0.0138	2
3	1.22 B	0.4368	0.2278	5.898	10.6	2.76	0.998	0.105	0.012	0.028	0.017	0.0138	3
4	1.20 B	0.4178	0.2158	5.938	10.1	2.74	1.03	0.080	0.008	0.022	0.021	0.0138	4
5	1.16 B	0.4028	0.2688	11.0 B	9.39	2.47	1.25	0.072	0.021	0.019	0.023	0.0138	5
6	1.13 B	0.3878	1.20 B	13.0 B	8.83	2.44	1.19	0.082	0.028	0.018	0.022	0.0098	6
7	1.10 B	0.3808	1.49 B	15.0 B	8.51	2.28	1.19	0.058	0.013	0.015	0.021	0.0098	7
8	1.07 B	0.3698	1.63 B	16.2 B	8.02	2.23	1.18	0.047	0.015	0.013	0.018	0.0088	8
9	1.04 B	0.3558	1.32 B	21.6	7.61	2.04	1.13	0.044	0.017	0.020	0.014	0.0088	9
10	1.00 B	0.3448	1.25 B	21.7	8.00	2.00	1.10	0.051	0.018	0.023	0.013	0.0068	10
11	0.9848	0.3228	1.27 B	21.5	7.24	1.98	1.24	0.044	0.013	0.022	0.009	0.0068	11
12	0.9388	0.3088	1.67 B	21.6	6.30	1.86	1.16	0.039	0.012	0.021	0.009	0.0058	12
13	0.9048	0.3018	2.72 B	21.4	5.12	1.89	0.979	0.026	0.012	0.018	0.011	0.0078	13
14	0.8788	0.2878	3.45 B	21.0	5.65	1.38	0.908	0.017	0.013	0.015	0.013	0.0068	14
15	0.8598	0.2728	3.07 B	20.5	5.02	1.44	0.845	0.020	0.144	0.013	0.013	0.0068	15
16	0.8108	0.2618	3.13 B	19.9	4.66	1.16	0.928	0.023	0.024	0.012	0.012	0.0068	16
17	0.7788	0.2518	2.47 B	19.4	4.47	1.04	0.895	0.020	0.018	0.011	0.011	0.0068	17
18	0.7468	0.2408	2.08 B	18.6	4.38	0.978	0.844	0.018	0.012	0.008	0.011	0.0078	18
19	0.7188	0.2288	1.83 B	18.2	4.25	0.992	0.808	0.013	0.008	0.012	0.012	0.0068	19
20	0.6888	0.2188	1.77 B	17.7	4.20	0.988	0.759	0.016	0.007	0.018	0.018	0.0068	20
21	0.6568	0.2118	1.59 B	17.1	4.14	0.953	0.712	0.023	0.013	0.018	0.017	0.0068	21
22	0.6318	0.2368	1.41 B	16.4	4.04	1.14	0.715	0.014	0.016	0.018	0.0188	0.0068	22
23	0.6038	0.3858	1.21 B	15.8	3.90	1.32	0.895	0.020	0.011	0.017	0.0158	0.0058	23
24	0.5848	0.3808	0.9968	15.3	3.78	1.18	0.814	0.033	0.008	0.018	0.0188	0.0058	24
25	0.5518	0.3648	0.8238	14.7	3.82	1.18	0.830	0.018	0.013	0.020	0.0148	0.0058	25
26	0.5438	0.3048	1.02 B	14.2	3.68	1.20	0.672	0.013	0.009	0.020	0.0148	0.0058	26
27	0.5358	0.2728	1.20 B	13.6	3.38	1.04	0.818	0.010	0.012	0.014	0.0138	0.0058	27
28	0.5248	0.2498	1.20 B	13.2	3.38	0.988	0.288	0.008	0.016	0.018	0.0138	0.0048	28
29	0.5188		1.26 B	12.7	3.27	1.01	0.177	0.030	0.018	0.013	0.0138	0.0048	29
30	0.4928		1.44 B	12.0	3.08	1.03	0.194	0.024	0.023	0.013	0.0138	0.0048	30
31	0.4688		3.38 B		3.00		0.183	0.018		0.012		0.0048	31
TOTAL	25.842	9.035	47.151	471.88	184.67	49.419	25.625	1.235	0.587	0.531	0.433	0.231	TOTAL
MEAN	0.834	0.323	1.52	15.7	5.96	1.65	0.827	0.040	0.019	0.017	0.014	0.007	MEAN
MAX	1.29	0.457	3.45	21.8	11.4	2.86	1.25	0.137	0.144	0.028	0.023	0.013	MAX
MIN	0.488	0.211	0.213	4.42	3.00	0.953	0.183	0.008	0.008	0.008	0.008	0.004	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.24
MAXIMUM DAILY, 21.8 ON APR 9
MINIMUM DAILY, 0.0048 ON DEC 28
MAXIMUM INSTANTANEOUS,
22.1 AT 17:30 CST ON APR 8

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 13 18 N
LONG 99 02 03 W
DRAINAGE AREA, 4 480 km²

B - ICE CONDITIONS

REGULATED SINCE 1940

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 230	JUL	2 210
FEB	781	AUG	107
MAR	4 070	SEP	49.0
APR	40 800	OCT	45.9
MAY	18 000	NOV	37.4
JUN	4 270	DEC	20.0

TOTAL DISCHARGE, 70 800 dam³

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05DA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1028	4.50 B	0.551	0.381	0.044	0.001	0.001	0.001	---	---	1
2	---	---	0.0708	3.84 B	0.498	0.368	0.066	0.001	0.001	0.001	---	---	2
3	---	---	0.0568	3.27 B	0.444	0.367	0.089	0.001	0.001	0.001	---	---	3
4	---	---	0.0218	2.77 B	0.434	0.372	0.088	0.001	0.001	0.001	---	---	4
5	---	---	0.0268	2.62 B	0.440	0.323	0.083	0.001	0.001	0.001	---	---	5
6	---	---	0.3448	2.24 B	0.443	0.278	0.078	0.001	0.001	0.001	---	---	6
7	---	---	0.4028	2.16 B	0.426	0.252	0.065	0.001	0.001	0.001	---	---	7
8	---	---	0.5448	1.93 B	0.418	0.238	0.102	0.001	0.001	0.001	---	---	8
9	---	---	0.8648	1.51 B	0.427	0.181	0.092	0.001	0.001	0.001	---	---	9
10	---	---	0.2598	0.931	0.455	0.184	0.089	0.001	0.001	0.001	---	---	10
11	---	---	0.0928	1.08	0.469	0.182	0.082	0.001	0.001	0.001	---	---	11
12	---	---	0.1178	1.35	0.475	0.138	0.069	0.001	0.001	0.001	---	---	12
13	---	---	1.36 B	0.805	0.440	0.089	0.058	0.001	0.001	0.001	---	---	13
14	---	---	5.19 B	0.805	0.797	0.072A	0.050	0.001	0.001	0.001	---	---	14
15	---	---	3.22 B	0.829	0.959	0.065E	0.043	0.001	0.001	0.001	---	---	15
16	---	---	2.65 B	0.728	0.887	0.057E	0.037	0.001	0.001	0.001	---	---	16
17	---	---	1.88 B	0.825	0.789	0.050E	0.031	0.001	0.001	0.001	---	---	17
18	---	---	1.48 B	0.792	0.705	0.043E	0.041	0.001	0.001	0.001	---	---	18
19	---	---	1.10 B	0.777	0.704	0.035E	0.045	0.001	0.001	0.001	---	---	19
20	---	---	0.5628	0.772	0.781	0.027E	0.041	0.001	0.001	0.001	---	---	20
21	---	---	0.1808	1.05	0.784	0.020E	0.036	0.001	0.001	0.001	---	---	21
22	---	---	0.0628	1.32	0.805	0.027A	0.031	0.001	0.001	0.001	---	---	22
23	---	---	0.0368	1.36	0.771	0.039	0.012	0.001	0.001	0.001	---	---	23
24	---	---	0.0308	1.31	0.712	0.040	0.006	0.001	0.001	0.001	---	---	24
25	---	---	0.0298	1.17	0.856	0.028	0.005	0.001	0.001	0.001	---	---	25
26	---	---	0.0518	1.04	0.825	0.013	0.004	0.001	0.001	0.001	---	---	26
27	---	---	0.1258	0.907	0.589	0.003	0.001	0.001	0.001	0.001	---	---	27
28	---	---	0.5098	0.774	0.542	0.005	0.001	0.001	0.001	0.001	---	---	28
29	---		1.40 B	0.728	0.484	0.019	0.001	0.001	0.001	0.001	---	---	29
30	---		2.31 B	0.636	0.424	0.038	0.001	0.001	0.001	0.001	---	---	30
31	---		4.02 B		0.390		0.001	0.001		0.001		---	31
TOTAL	---	---	29.171	44.807	18.525	3.934	1.412	0.031	0.030	0.031	---	---	TOTAL
MEAN	---	---	0.941	1.49	0.598	0.131	0.046	0.001	0.001	0.001	---	---	MEAN
MAX	---	---	5.19	4.50	0.959	0.381	0.102	0.001	0.001	0.001	---	---	MAX
MIN	---	---	0.021	0.636	0.390	0.003	0.001	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.389
MAXIMUM DAILY, 5.190 ON MAR 14
MINIMUM DAILY, 0.001 ON JUL 27
MAXIMUM INSTANTANEOUS,
6.388 AT 11:51 CST ON MAR 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 41 N
LONG 98 44 36 W
DRAINAGE AREA, 355 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	122
FEB	---	AUG	2 68
MAR	2 520	SEP	2 59
APR	3 850	OCT	2 68
MAY	1 600	NOV	---
JUN	340	DEC	---

TOTAL DISCHARGE, 8 440 dam³

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05DB007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.1158	0.0168	0.0358	4.978	18.4	7.40	2.92	0.973	0.138	0.291	0.210	0.1098	1
2	0.1208	0.0148	0.0408	8.008	18.0	7.22	2.89	0.993	0.132	0.448	0.203	0.1078	2
3	0.1328	0.0138	0.0558	12.1 B	17.6	8.90	2.82	0.889	0.121	0.452	0.184	0.1118	3
4	0.1388	0.0128	0.0708	16.2 B	17.0	8.76	2.89	0.745	0.118	0.428	0.181	0.1098	4
5	0.1408	0.0118	0.5008	19.9 B	16.5	8.72	2.56	0.882	0.126	0.303	0.167	0.1058	5
6	0.1108	0.0108	2.00 B	23.6 B	16.0	8.56	2.48	0.855	0.137	0.285	0.165	0.0958	6
7	0.0858	0.0098	1.70 B	26.0 B	15.4	8.36	2.37	0.654	0.125	0.292	0.188	0.0928	7
8	0.0708	0.0088	1.64 B	28.7	14.9	8.12	2.25	0.572	0.128	0.248	0.188	0.0858	8
9	0.0808	0.0088	1.56 B	26.3	14.5	8.68	2.12	0.528	0.136	0.237	0.168	0.0818	9
10	0.0908	0.0068	1.50 B	26.2	13.5	8.76	2.03	0.478	0.119	0.280	0.1378	0.0758	10
11	0.0708	0.0068	1.44 B	25.7	12.6	8.44	1.88	0.425	0.102	0.230	0.1598	0.0718	11
12	0.0808	0.0208	1.40 B	23.1	12.7	8.15	1.77	0.400	0.108	0.245	0.188	0.0888	12
13	0.0808	0.0358	4.00 B	20.2	13.0	8.14	1.69	0.380	0.103	0.250	0.181	0.0818	13
14	0.1108	0.0508	3.50 B	18.0	12.7	8.85	1.69	0.328	0.093	0.250	0.178	0.0658	14
15	0.1208	0.0408	3.50 B	18.3	12.1	8.86	1.74	0.298	0.145	0.242	0.172	0.0328	15
16	0.1258	0.0358	3.41 B	17.8	11.8	8.78	1.73	0.287	0.204	0.234	0.1858	0.0488	16
17	0.1308	0.0308	1.78 B	19.0	11.4	8.45	1.69	0.250	0.148	0.230	0.1888	0.0268	17
18	0.1378	0.0308	1.18 B	18.9	11.1	8.25	1.60	0.241	0.139	0.218	0.204	0.0298	18
19	0.1458	0.0358	0.9448	18.7	10.2	8.06	1.61	0.216	0.142	0.214	0.189	0.0388	19
20	0.1528	0.0358	0.9048	18.2	10.3	8.56	1.46	0.181	0.144	0.218	0.1918	0.0308	20
21	0.1758	0.0408	0.7568	18.1	10.1	8.79	1.41	0.178	0.142	0.216	0.1858	0.0188	21
22	0.2008	0.0408	0.6558	18.3	9.61	8.17	1.43	0.180	0.128	0.217	0.1118	0.0108	22
23	0.1808	0.0358	0.4988	18.0	9.35	8.89	1.28	0.189	0.121	0.422	0.0948	0.0078	23
24	0.1108	0.0308	0.4908	18.4	9.23	8.88	1.15	0.291	0.101	0.548	0.1058	0.0108	24
25	0.0808	0.0358	0.5018	18.7	8.98	8.75	1.08	0.226	0.087	0.422	0.1318	0.0188	25
26	0.0808	0.0508	0.4418	18.7	8.82	8.81	1.02	0.241	0.078	0.348	0.1868	0.0188	26
27	0.0408	0.0458	0.4528	18.4	8.50	8.36	0.988	0.200	0.124	0.288	0.1758	0.0138	27
28	0.0308	0.0408	0.4808	18.2	8.01	8.26	0.949	0.144	0.380	0.240	0.1828	0.0118	28
29	0.0258		0.4888	18.0	7.78	8.18	0.884	0.197	0.185	0.203	0.1378	0.0098	29
30	0.0208		0.8508	18.6	7.78	8.11	0.882	0.175	0.173	0.206	0.1158	0.0068	30
31	0.0188		2.72 B		7.60		0.915	0.154		0.208		0.0048	31
TOTAL	3.137	0.742	39.500	583.27	376.45	148.82	54.028	12.308	4.135	8.909	4.987	1.547	TOTAL
MEAN	0.101	0.027	1.27	18.4	12.1	4.95	1.74	0.397	0.138	0.287	0.166	0.050	MEAN
MAX	0.200	0.050	4.00	28.7	18.4	7.40	2.92	0.993	0.380	0.548	0.210	0.111	MAX
MIN	0.018	0.008	0.035	4.97	7.60	3.11	0.884	0.144	0.078	0.203	0.094	0.004	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.29
MAXIMUM DAILY, 28.7 ON APR 8
MINIMUM DAILY, 0.0048 ON DEC 31
MAXIMUM INSTANTANEOUS,
32.4 AT 00:00 CST ON APR 8

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 53 N
LONG 98 16 40 W
DRAINAGE AREA, 7 510 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	271	JUL	4 670
FEB	64.1	AUG	1 060
MAR	3 410	SEP	357
APR	50 400	OCT	770
MAY	32 400	NOV	431
JUN	12 900	DEC	134

TOTAL DISCHARGE, 107 000 dam³

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	42.7B	39.6B	32.7B	32.0B	45.5E	69.4E	139	119	109	67.7	44.5	28.9B	1
2	42.8B	39.2B	32.2B	31.8B	46.0E	69.8E	139	122	106	66.8	43.8	26.3B	2
3	42.7B	38.6B	31.7B	31.6B	46.5E	70.2E	139	126	104	65.7	42.9	27.7B	3
4	42.7B	37.9B	31.9B	31.4B	47.0E	70.4E	138	129	101	64.8	42.3	27.5B	4
5	42.7B	37.3B	32.1B	31.3B	47.5E	70.6E	136	131	99.4	64.2	42.1	27.4B	5
6	42.6B	37.0B	32.3B	31.2B	48.5E	70.6E	135	132	99.8	63.4	41.6	26.9B	6
7	42.5B	36.7B	32.4B	31.3B	49.5E	70.5E	133	134	96.8	62.3	40.2	26.6B	7
8	42.5B	36.5B	32.4B	31.5B	50.5E	70.4E	131	135	97.7	61.0	39.9	26.6B	8
9	42.5B	36.3B	32.3B	32.6B	50.4E	70.4E	129	136	95.6	59.9	39.3	26.1B	9
10	42.4B	36.0B	32.3B	34.1B	50.3E	70.3E	128	137	94.8	59.3	38.8	25.5B	10
11	42.4B	36.0B	32.2B	35.1B	50.2E	70.6E	131	137	94.8	59.3	38.3	25.4B	11
12	42.7B	36.1B	32.1B	35.2B	50.1E	71.0E	128	138	93.3	58.5	37.7	25.5B	12
13	42.3B	36.1B	32.0B	35.1B	53.3E	72.5E	126	138	91.7	57.3	37.4	25.5B	13
14	41.9B	36.2B	31.8B	34.0B	56.5E	75.5E	124	137	90.2	56.5	37.1	25.4B	14
15	41.5B	36.3B	32.1B	32.9B	59.7E	78.6A	122	135	88.7	55.7	36.6	25.3B	15
16	41.4B	36.0B	32.0B	32.1B	62.1E	78.0	120	133	87.7	55.1	35.8	25.1B	16
17	41.5B	35.6B	32.0B	31.3B	64.5E	78.7	118	132	86.0	54.6	35.2	24.9B	17
18	41.6B	35.5B	32.1B	31.2B	66.9E	79.3	117	132	85.8	53.6	35.0B	24.6B	18
19	41.7B	35.3B	32.1B	31.6B	67.0E	79.4	116	131	84.9	52.6	34.7B	24.7B	19
20	41.6B	35.0B	32.2B	32.4B	67.1E	83.6	116	126	83.4	52.0	34.1B	24.6B	20
21	41.6B	34.7B	32.2B	33.9B	67.0E	93.8	115	122	81.1	51.5	33.6B	24.6B	21
22	41.3B	34.4B	32.3B	35.4B	66.9E	106	115	120	79.4	50.7	33.2B	24.5B	22
23	40.9B	34.2B	32.3B	36.9B	66.8E	117	114	120	77.9	49.9	32.8B	24.4B	23
24	40.6B	33.9B	32.4B	38.5B	66.9E	117	114	120	76.0	49.5	32.2B	24.3B	24
25	40.3B	33.6B	32.3B	40.1B	67.0E	119	114	121	74.3	48.7	31.7B	24.3B	25
26	40.2B	33.4B	32.4B	41.7E	67.2E	133	114	122	72.9	47.9	31.4B	25.3B	26
27	40.1B	33.2B	32.4B	42.4E	67.4E	139	114	120	71.3	47.3	30.9B	25.6B	27
28	40.0B	33.2B	32.3B	43.2E	67.6E	138	114	121	70.5	46.7	30.3B	25.6B	28
29	39.9B		32.2B	44.1E	67.8E	137	113	117	69.3	45.9	29.6B	25.6B	29
30	39.6B		32.1B	45.0E	68.0E	136	114	114	68.1	45.4	29.1B	25.7B	30
31	39.7B		32.0B		69.0E		116	113		44.9		25.7B	31
TOTAL	1 289.2	1 004.2	997.8	1 051.1	1 820.7	2 705.6	3 822	3 950	2 633.5	1 718.7	1 092.1	798.3	TOTAL
MEAN	41.6	35.9	32.2	35.0	53.7	90.2	123	127	87.8	55.4	36.4	25.8	MEAN
MAX	42.8	39.6	32.7	45.0	69.0	139	139	138	109	67.7	44.5	28.9	MAX
MIN	39.7	33.2	31.7	31.2	45.5	69.4	113	113	68.1	44.9	29.1	24.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 62.7
MAXIMUM DAILY, 139 ON JUN 27
MINIMUM DAILY, 24.3B ON DEC 24
MAXIMUM INSTANTANEOUS,
139 AT 17:42 CST ON JUN 27

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 49 N
LONG 96 23 37 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	111 000	JUL	330 000
FEB	86 800	AUG	341 000
MAR	86 200	SEP	228 000
APR	90 800	OCT	148 000
MAY	157 000	NOV	94 400
JUN	234 000	DEC	69 000

TOTAL DISCHARGE, 1 980 000 dam³

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.8	1.47 B	0	0.002	0	0	0	0	---	---	1
2	---	---	0.8	1.22 B	0	0.002	0	0	0	0	---	---	2
3	---	---	0.8	0.923B	0	0.002	0	0	0	0	---	---	3
4	---	---	0.8	0.789B	0	0.002	0	0	0	0	---	---	4
5	---	---	0.8	0.941B	0	0.002	0	0	0	0	---	---	5
6	---	---	0.8	0.884B	0	0.002	0	0	0	0	---	---	6
7	---	---	0.8	0.451B	0	0.001	0	0	0	0	---	---	7
8	---	---	0.8	0.026B	0	0.001	0	0	0	0	---	---	8
9	---	---	0.8	0.049B	0.002	0.001	0	0	0	0	---	---	9
10	---	---	0.8	0.139B	0.001	0.001	0	0	0	0	---	---	10
11	---	---	0.8	0.338B	0.001	0.001	0	0	0	0	---	---	11
12	---	---	0.0028	0.369B	0.001	0.001	0	0	0	0	---	---	12
13	---	---	0.030B	0.001	0.001	0	0	0	0	0	---	---	13
14	---	---	0.080B	0	0	0	0	0	0	0	---	---	14
15	---	---	0.100B	0	0	0	0	0	0	0	---	---	15
16	---	---	0.107B	0	0	0	0	0	0	0	---	---	16
17	---	---	0.043B	0	0	0	0	0	0	0	---	---	17
18	---	---	0.014B	0	0	0	0	0	0	0	---	---	18
19	---	---	0.012B	0	0	0	0	0	0	0	---	---	19
20	---	---	0.010B	0	0	0	0	0	0	0	---	---	20
21	---	---	0.006B	0.002	0.001	0	0	0	0	0	---	---	21
22	---	---	0.006B	0.036	0.001	0	0	0	0	0	---	---	22
23	---	---	0.152B	0.063	0.001	0	0	0	0	0	---	---	23
24	---	---	0.295B	0.062	0.001	0	0	0	0	0	---	---	24
25	---	---	0.445B	0.067	0.001	0	0	0	0	0	---	---	25
26	---	---	0.592B	0.074	0.005	0	0	0	0	0	---	---	26
27	---	---	0.738B	0.302	0.003	0	0.184	0	0	0	---	---	27
28	---	---	0.884B	0.315	0.002	0	0.050	0	0	0	---	---	28
29	---		1.03 B	0.001	0.002	0	0.010	0	0	0	---	---	29
30	---		1.18 B	0	0.002	0	0.001	0	0	0	---	---	30
31	---		1.32 B		0.002		0	0		0		---	31
TOTAL	---	---	7.052	5.502	0.027	0.018	0.225	0	0	0	---	---	TOTAL
MEAN	---	---	0.227	0.283	0.001	0.001	0.007	0	0	0	---	---	MEAN
MAX	---	---	1.32	1.47	0.005	0.002	0.184	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.085
MAXIMUM DAILY, 1.47B ON APR 1
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
2.20 AT 08:00 CST ON JUL 27

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 34 N
LONG 98 57 08 W
DRAINAGE AREA, 147 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	19.4
FEB	---	AUG	0
MAR	505	SEP	0
APR	735	OCT	0
MAY	2.33	NOV	---
JUN	1.56	DEC	---

TOTAL DISCHARGE, 1 270 dam³

REMARKS - MAXIMUM FLOW DUE TO OPENING OF RESERVOIR OUTLET, JUL 27

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05DD027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0508	0.0488	0.1928	2.94 B	1.14	0.885	0.470	0.120	0.435	0.358	0.336	0.3608	1
2	0.0648	0.0498	0.1898	2.69 B	1.03	0.807	0.456	0.111	0.345	0.377	0.331	0.3328	2
3	0.0658	0.0478	0.1858	2.49 B	0.956	1.08	0.843	0.124	0.282	0.341	0.298	0.3058	3
4	0.0788	0.0358	0.2468	2.14 B	0.949	1.08	0.774	0.151	0.228	0.346	0.250	0.2868	4
5	0.1058	0.0218	0.6368	2.00 B	0.905	0.931	0.714	0.151	0.213	0.379	0.293	0.3778	5
6	0.1368	0.0138	1.52 B	1.88 B	0.880	0.815	0.501	0.182	0.216	0.338	0.293	0.3738	6
7	0.1768	0.0088	2.50 B	1.70 B	0.830	0.655	0.420	0.122	0.226	0.355	0.287	0.3548	7
8	0.2308	0.0048	1.71 B	1.59 B	0.794	0.550	0.297	0.113	0.206	0.326	0.340	0.2468	8
9	0.2688	0.0048	2.18 B	1.71 B	0.795	0.492	0.232	0.103	0.222	0.298	0.311	0.1258	9
10	0.3088	0.0078	1.45 B	1.86 B	0.914	0.429	0.191	0.098	0.227	0.295	0.3008	0.2868	10
11	0.3288	0.0138	0.9918	1.96 B	1.62	0.368	0.144	0.092	0.185	0.372	0.2928	0.2368	11
12	0.3578	0.0258	1.01 B	1.92 B	3.59	0.606	0.328A	0.102	0.165	0.342	0.3048	0.2598	12
13	0.3978	0.0448	1.65 B	1.66	4.87	1.24	0.110	0.088	0.179	0.337	0.3268	0.3228	13
14	0.4078	0.0778	1.58 B	1.35	4.15	1.24	0.089	0.090	0.158	0.314	0.2848	0.3558	14
15	0.3938	0.1328	1.28 B	1.12	2.69	1.36	0.088	0.090	0.187	0.300	0.2898	0.3838	15
16	0.3628	0.2778	0.9858	0.919	1.95	1.75	0.075	0.083	0.373	0.459	0.3108	0.8018	16
17	0.2858	0.1418	0.9088	0.758	1.58	1.25	0.070	0.083	0.378	0.500	0.4298	0.2208	17
18	0.1678	0.1348	0.8658	0.731	1.46	0.878	0.085	0.093	0.322	0.420	0.2848	0.0628	18
19	0.1378	0.1568	0.8248	0.728	1.32	0.718	0.084	0.092	0.263	0.388	0.2848	0.1588	19
20	0.1478	0.1738	0.7438	0.825	1.17	0.707	0.076	0.085	0.243	0.396	0.4848	0.3658	20
21	0.1408	0.1578	0.6588	0.936	1.10	0.798	0.066	0.088	0.252	0.377	1.16 B	0.5658	21
22	0.1338	0.1618	0.5828	1.06	1.27	1.21	0.058	0.109	0.251	0.385	1.23 B	0.7438	22
23	0.1378	0.1668	0.5738	1.10	1.14	1.41	0.049	0.110	0.228	0.359	0.8098	0.9128	23
24	0.1278	0.1498	0.5118	1.16	1.02	0.853	0.048	0.173	0.204	0.372	0.6858	1.08 B	24
25	0.0968	0.1378	0.3708	1.20	0.956	0.658	0.046	0.724	0.205	0.419	0.5188	1.19 B	25
26	0.0738	0.1338	0.3408	1.32	0.820	0.544	0.044	0.381	0.178	0.381	0.4418	1.23 B	26
27	0.0568	0.1538	0.4608	1.53	0.784	0.388	0.044	0.262	0.177	0.357	0.4378	1.22 B	27
28	0.0458	0.1988	0.8348	1.49	0.987	0.270	0.052	1.22	0.162	0.386	0.4808	1.18 B	28
29	0.0428		1.01 B	1.46	1.20	0.205	0.067	1.32	0.148	0.339	0.4258	1.13 B	29
30	0.0458		1.27 B	1.24	1.24	0.383	0.057	0.817	0.198	0.313	0.3808	1.07 B	30
31	0.0478		2.12 B		1.13		0.105	0.584		0.313		0.9878	31
TOTAL	5.400	2.611	31.380	45.457	45.260	24.578	8.681	7.951	7.056	11.267	13.120	17.322	TOTAL
MEAN	0.174	0.093	1.01	1.52	1.46	0.819	0.218	0.256	0.235	0.363	0.437	0.559	MEAN
MAX	0.407	0.227	3.50	2.94	4.87	1.75	0.843	1.32	0.435	0.500	1.23	1.23	MAX
MIN	0.042	0.004	0.135	0.728	0.784	0.205	0.044	0.083	0.148	0.295	0.269	0.062	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.598
MAXIMUM DAILY, 4.87 ON MAY 13
MINIMUM DAILY, 0.0048 ON FEB 8
MAXIMUM INSTANTANEOUS,
4.96 AT 13:04 CST ON MAY 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 25 N
LONG 95 58 40 W
DRAINAGE AREA, 158 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	467	JUL	577
FEB	226	AUG	687
MAR	2 710	SEP	610
APR	3 930	OCT	973
MAY	3 910	NOV	1 130
JUN	2 120	DEC	1 500

TOTAL DISCHARGE, 18 800 dam³

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.1158	0.1018	0.1348	0.3178	0.227	0.275	0.234	0.101	0.071	0.196	0.201	0.1678	1
2	0.1198	0.0958	0.1338	0.3108	0.228	0.200	0.373	0.101	0.090	0.211	0.227	0.1608	2
3	0.1228	0.0988	0.1378	0.5548	0.174	0.215	0.279	0.098	0.075	0.195	0.224	0.1548	3
4	0.1298	0.0988	0.1268	1.53 B	0.153	0.234	0.293	0.093	0.088	0.176	0.232	0.1528	4
5	0.1248	0.0958	0.1298	1.84 B	0.186	0.344	0.250	0.085	0.069	0.169	0.245	0.1478	5
6	0.1248	0.0938	0.1568	1.60	0.250	0.312	0.218	0.079	0.075	0.157	0.274	0.1428	6
7	0.1228	0.0968	0.1398	2.56	0.183	0.218	0.196	0.076	0.087	0.149	0.242	0.1438	7
8	0.1268	0.0948	0.1218	3.97	0.191	0.293	0.220	0.086	0.082	0.185	0.187	0.1408	8
9	0.1248	0.0928	0.1158	5.43	0.126	0.251	0.241	0.087	0.084	0.170	0.182	0.1328	9
10	0.1238	0.0958	0.1238	5.91	0.256	0.307	0.229	0.070	0.085	0.152	0.183	0.1258	10
11	0.1138	0.0978	0.1248	5.69	0.375	0.357	0.215	0.085	0.081	0.145	0.176	0.1278	11
12	0.1168	0.0988	0.1258	3.03	0.320	0.213	0.188	0.081	0.082	0.203	0.174	0.1288	12
13	0.1138	0.0938	0.1198	2.43	0.319	0.192	0.165	0.059	0.081	0.202	0.181	0.1248	13
14	0.1078	0.0918	0.1128	1.32	0.318	0.189	0.187	0.055	0.081	0.180	0.185	0.1228	14
15	0.1078	0.0998	0.1158	0.867	0.440	0.187	0.158	0.056	0.129	0.187	0.183	0.1198	15
16	0.1068	0.1048	0.1158	0.794	0.391	0.172	0.226	0.058	0.122	0.193	0.179	0.1158	16
17	0.1038	0.1108	0.1138	0.866	0.362	0.178	0.215	0.054	0.135	0.178	0.181	0.1118	17
18	0.1038	0.1168	0.1198	0.800	0.372	0.188	0.213	0.053	0.112	0.175	0.210	0.1078	18
19	0.1028	0.1118	0.1218	0.682	0.413	0.308	0.186	0.051	0.102	0.173	0.227	0.1038	19
20	0.1028	0.1108	0.1198	0.694	0.319	0.220	0.183	0.057	0.088	0.177	0.221	0.1018	20
21	0.1038	0.1248	0.1158	0.683	0.371	0.201	0.188	0.087	0.084	0.178	0.216	0.1008	21
22	0.1058	0.1198	0.1238	0.751	0.379	0.240	0.150	0.087	0.120	0.191	0.200	0.0998	22
23	0.1138	0.1328	0.1328	0.802	0.345	0.288	0.128	0.083	0.113	0.204	0.189	0.0958	23
24	0.1068	0.0918	0.1338	0.898	0.315	0.385	0.132	0.078	0.104	0.225	0.181	0.0928	24
25	0.1048	0.0838	0.1298	0.672	0.468	0.241	0.144	0.077	0.088	0.281	0.189	0.0848	25
26	0.0958	0.0868	0.1248	0.634	0.375	0.251	0.137	0.070	0.085	0.248	0.185	0.0938	26
27	0.1008	0.1008	0.1268	0.363	0.315	0.210	0.123	0.064	0.083	0.258	0.1868	0.1008	27
28	0.0868	0.1198	0.1278	0.307	0.358	0.196	0.107	0.068	0.084	0.505	0.1718	0.1008	28
29	0.0938		0.1228	0.257	0.281	0.178	0.105	0.078	0.088	0.301	0.1748	0.0958	29
30	0.0868		0.1498	0.242	0.233	0.259	0.138	0.074	0.148	0.228	0.1728	0.0878	30
31	0.0988		0.3528		0.254		0.114	0.089		0.209		0.0948	31
TOTAL	3.404	2.850	4.129	47.792	9.296	7.273	5.859	2.209	2.884	6.341	5.916	3.885	TOTAL
MEAN	0.110	0.102	0.133	1.59	0.300	0.242	0.189	0.071	0.096	0.205	0.197	0.119	MEAN
MAX	0.125	0.133	0.352	5.91	0.468	0.385	0.373	0.101	0.148	0.505	0.274	0.167	MAX
MIN	0.083	0.083	0.112	0.242	0.126	0.172	0.105	0.051	0.068	0.145	0.185	0.092	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.278
MAXIMUM DAILY, 5.91 ON APR 10
MINIMUM DAILY, 0.051 ON AUG 19
MAXIMUM INSTANTANEOUS,
8.68 AT 17:51 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 00 N
LONG 99 12 30 W
DRAINAGE AREA, 393 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	211	JUL	364
FEB	246	AUG	191
MAR	247	SEP	246
APR	4 130	OCT	544
MAY	803	NOV	511
JUN	526	DEC	374

TOTAL DISCHARGE, 6 780 dam³

PINE CREEK NEAR PINE CREEK STATION - STATION NO 05LL007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.320B	0.458B	2.25	0.959	---	---	---	---	---	---	1
2	---	---	0.320B	0.474B	2.13	0.902	---	---	---	---	---	---	2
3	---	---	0.323B	0.487B	1.95	1.05	---	---	---	---	---	---	3
4	---	---	0.341B	0.533B	1.80	1.28	---	---	---	---	---	---	4
5	---	---	0.365B	0.563B	1.68	1.16 A	---	---	---	---	---	---	5
6	---	---	0.358B	5.24 B	1.51	1.10 E	---	---	---	---	---	---	6
7	---	---	0.357B	7.58 B	1.37	1.09 E	---	---	---	---	---	---	7
8	---	---	0.354B	10.5 B	1.30	1.08 E	---	---	---	---	---	---	8
9	---	---	0.361B	14.2 B	1.24	1.09 E	---	---	---	---	---	---	9
10	---	---	0.347B	17.8 B	1.11	1.09 E	---	---	---	---	---	---	10
11	---	---	0.341B	16.7 B	1.12	1.11 E	---	---	---	---	---	---	11
12	---	---	0.335B	14.1 B	1.08	1.13 E	---	---	---	---	---	---	12
13	---	---	0.332B	10.9 B	1.26	1.13 E	---	---	---	---	---	---	13
14	---	---	0.332B	8.66 B	1.50	1.13 E	---	---	---	---	---	---	14
15	---	---	0.336B	7.04 B	1.59	1.14 E	---	---	---	---	---	---	15
16	---	---	0.341B	5.38 B	1.57	1.14 E	---	---	---	---	---	---	16
17	---	---	0.347B	4.01 A	1.48	1.13 E	---	---	---	---	---	---	17
18	---	---	0.354B	3.59 A	1.43	1.14 E	---	---	---	---	---	---	18
19	---	---	0.344B	3.14 A	1.38	1.14 E	---	---	---	---	---	---	19
20	---	---	0.335B	3.28 A	1.50	1.16 E	---	---	---	---	---	---	20
21	---	---	0.329B	4.11	1.58	1.20 E	---	---	---	---	---	---	21
22	---	---	0.317B	4.72	1.48	1.22 A	---	---	---	---	---	---	22
23	---	---	0.311B	4.26	1.36	1.35	---	---	---	---	---	---	23
24	---	---	0.304B	3.65	1.33	1.42	---	---	---	---	---	---	24
25	---	---	0.305B	3.35	1.34	1.25	---	---	---	---	---	---	25
26	---	---	0.317B	3.17	1.28	1.16	---	---	---	---	---	---	26
27	---	---	0.335B	2.94	1.23	1.04	---	---	---	---	---	---	27
28	---	---	0.344B	2.67	1.22	0.857	---	---	---	---	---	---	28
29	---		0.352B	2.47	1.12	0.773	---	---	---	---	---	---	29
30	---		0.374B	2.35	1.02	0.790	---	---	---	---	---	---	30
31	---		0.414B		1.01		---	---		---		---	31
TOTAL	---	---	10.558	189.325	44.17	33.191	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.341	5.84	1.42	1.11	---	---	---	---	---	---	MEAN
MAX	---	---	0.414	17.8	2.25	1.42	---	---	---	---	---	---	MAX
MIN	---	---	0.305	0.458	1.01	0.773	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.11
MAXIMUM DAILY, 17.8B ON APR 10
MINIMUM DAILY, 0.305B ON MAR 25

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 03 40 N
LONG 98 55 49 W
DRAINAGE AREA, 635 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	912	SEP	---
APR	14 500	OCT	---
MAY	3 820	NOV	---
JUN	2 870	DEC	---

TOTAL DISCHARGE, 22 200 dam³

PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.110B	0.090B	2.25	2.82	1.27	0.834	0.338A	0.464	---	---	1
2	---	---	0.110B	0.090B	2.84	2.68	1.98	0.844	0.372	0.393	---	---	2
3	---	---	0.110B	0.088B	3.56	3.25	4.20	0.821	0.443	0.404	---	---	3
4	---	---	0.108B	0.098B	3.19	3.73	5.83	0.793	0.547	0.404	---	---	4
5	---	---	0.108B	0.110B	3.72	3.41	4.89	0.777	0.598	0.487	---	---	5
6	---	---	0.108B	0.370B	3.95	2.97	4.05	0.757	0.890	0.620	---	---	6
7	---	---	0.108B	0.575B	3.79	2.82	3.34	0.729	0.621	0.505	---	---	7
8	---	---	0.108B	0.815B	3.92	2.73	2.60	0.696	0.488	0.533	---	---	8
9	---	---	0.108B	1.01 B	4.91	2.59	2.44	0.682	0.527	0.608	---	---	9
10	---	---	0.104B	0.880B	5.98	2.35	2.86	0.678	0.790	0.828	---	---	10
11	---	---	0.104B	3.21B	6.89	2.13	3.29	0.680	0.815	1.08	---	---	11
12	---	---	0.104B	0.112B	5.29	1.98	2.96	0.645	0.508	1.08	---	---	12
13	---	---	0.102B	0.110B	4.23	2.92	2.47	0.638	0.452	1.02	---	---	13
14	---	---	0.102B	0.108B	4.66	2.95	2.13	0.630	0.412	0.910	---	---	14
15	---	---	0.102B	0.108B	3.61	3.00	1.89	0.619	0.393	0.802	---	---	15
16	---	---	0.100B	0.106B	2.98	2.85	2.38	0.630	0.385	0.781	---	---	16
17	---	---	0.100B	0.108B	3.75	2.47	2.47	0.628	0.381	0.685	---	---	17
18	---	---	0.100B	0.108B	7.85	2.11	2.20	0.591	0.375	0.544	---	---	18
19	---	---	0.098B	0.110B	12.9	1.91	1.95	0.612	0.436	0.480	---	---	19
20	---	---	0.098B	0.250B	11.6	1.83	1.74	0.678	0.482	0.711	---	---	20
21	---	---	0.098B	0.515B	12.8	1.56	1.59	0.624	0.504	0.592	---	---	21
22	---	---	0.096B	1.11 B	11.5	1.48	1.41	0.589	0.452	0.549	---	---	22
23	---	---	0.096B	2.33 B	9.01	1.50	1.30	0.554	0.419	0.507	---	---	23
24	---	---	0.096B	4.42 B	7.48	1.34	1.17	0.559	0.402	0.487	---	---	24
25	---	---	0.094B	4.72 B	5.99	1.84	1.00	0.585	0.406	0.491	---	---	25
26	---	---	0.094B	4.37	5.27	2.00	0.950	0.528	0.342	0.504	---	---	26
27	---	---	0.094B	3.54	4.83	1.84	0.912	0.545	0.277	0.520	---	---	27
28	---	---	0.092B	2.70	4.50	1.58	0.857	0.481	0.434	0.514	---	---	28
29	---		0.092B	2.36	3.89	1.34	0.834	0.434	0.437	0.439	---	---	29
30	---		0.092B	2.07	3.48	1.23	0.834	0.403	0.471	0.400	---	---	30
31	---		0.090B		3.14		0.885	0.379A		0.380		---	31
TOTAL	---	---	3.120	33.594	174.77	68.99	68.432	19.599	13.945	18.852	---	---	TOTAL
MEAN	---	---	0.101	1.12	5.64	2.30	2.21	0.632	0.465	0.608	---	---	MEAN
MAX	---	---	0.110	4.72	12.9	3.73	5.83	0.844	0.780	1.08	---	---	MAX
MIN	---	---	0.090	0.088	3.35	1.23	0.834	0.379	0.277	0.380	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.64
MAXIMUM DAILY, 12.9 ON MAY 19
MINIMUM DAILY, 0.088B ON APR 3
MAXIMUM INSTANTANEOUS,
14.3 AT 03:15 CST ON MAY 19

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 49 00 N
LONG 100 32 00 W
DRAINAGE AREA, 210 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 910
FEB	---	AUG	1 890
MAR	270	SEP	1 200
APR	2 900	OCT	1 830
MAY	15 100	NOV	---
JUN	5 950	DEC	---

TOTAL DISCHARGE, 34 700 dam³

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NC003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0288	0.0698	0.0728	0.0738	13.5	1.91	0.155	0.042	0.011	0.046	0.023	0.013	1
2	0.0198	0.0688	0.0728	0.0598	10.5	1.61	0.170	0.037	0.010	0.067	0.023	0.013	2
3	0.0078	0.0688	0.0728	0.0638	8.47	1.95	0.273	0.030	0.011	0.063	0.028	0.010	3
4	0.0388	0.0678	0.0738	0.0708	7.25	1.83	0.184	0.026	0.493	0.038	0.031	0.006	4
5	0.0278	0.0668	0.0738	0.0918	6.44	2.19	0.176	0.024	1.36	0.035	0.031	0.007	5
6	0.0448	0.0678	0.0748	0.4968	5.85	2.64	0.200	0.021	1.38	0.031	0.028	0.0189	6
7	0.0318	0.0668	0.0748	2.84 B	5.20	2.34	0.184	0.018	1.28	0.030	0.028	0.0249	7
8	0.0318	0.0688	0.0748	3.67 B	4.77	2.09	0.176	0.020	1.32	0.030	0.026	0.0318	8
9	0.0348	0.0678	0.0758	7.62 B	4.37	2.00	0.177	0.021	1.48	0.032	0.022	0.0268	9
10	0.0428	0.0688	0.0758	11.3 B	3.79	1.89	0.320	0.017	1.51	0.033	0.020	0.0148	10
11	0.0488	0.0708	0.0758	11.6 B	2.12	1.75	0.252	0.015	1.58	0.031	0.020	0.0068	11
12	0.0558	0.0708	0.0758	10.6 B	1.38	1.72	0.142	0.013	1.75	0.029	0.021	0.0048	12
13	0.0618	0.0738	0.0768	7.56 B	1.23	1.54	0.134	0.012	1.82	0.027	0.023	0.0028	13
14	0.0678	0.0738	0.0778	7.40 B	1.11	1.33	0.148	0.011	1.62	0.027	0.024	0.0038	14
15	0.0748	0.0728	0.0778	7.60 B	0.983	1.24	0.280	0.013	1.94	0.027	0.023	0.0048	15
16	0.0808	0.0728	0.0778	8.02 B	0.864	1.20	0.281	0.011	1.91	0.028	0.022	0.0038	16
17	0.0868	0.0718	0.0788	8.39 B	0.826	1.04	0.188	0.010	1.89	0.028	0.021	0.0028	17
18	0.0938	0.0708	0.0788	8.84 B	0.817	0.984	0.147	0.010	1.66	0.027	0.021	0.0038	18
19	0.0998	0.0708	0.0788	9.27 B	1.63	0.997	0.135	0.009	1.11	0.027	0.021	0.1118	19
20	0.0878	0.0708	0.0798	12.8 B	2.18	0.831	0.118	0.011	0.606	0.030	0.021	0.2298	20
21	0.0838	0.0708	0.0798	15.3	2.82	0.884	0.108	0.009	0.268	0.030	0.020	0.1868	21
22	0.0808	0.0708	0.0808	18.1	2.86	0.877	0.101	0.009	0.132	0.030	0.017	0.1368	22
23	0.0768	0.0708	0.0808	24.1	3.11	0.549	0.094	0.011	0.083	0.030	0.017	0.0938	23
24	0.0738	0.0718	0.0808	29.4	3.24	0.416	0.089	0.012	0.054	0.032	0.016	0.0478	24
25	0.0698	0.0718	0.0818	33.3	3.06	0.355	0.084	0.011	0.041	0.029	0.014	0.0028	25
26	0.0678	0.0718	0.0818	33.9	2.97	0.244	0.082	0.011	0.038	0.027	0.016	0.1018	26
27	0.0678	0.0718	0.0818	33.5	2.78	0.197	0.076	0.010	0.037	0.023	0.016	0.2018	27
28	0.0688	0.0728	0.0828	28.2	2.48	0.174	0.068	0.010	0.036	0.021	0.015	0.3008	28
29	0.0698		0.0828	21.7	2.38	0.163	0.060	0.013	0.034	0.021	0.015	0.2018	29
30	0.0698		0.0838	17.1	2.22	0.180	0.056	0.012	0.038	0.022	0.014	0.1038	30
31	0.0688		0.0838		2.14		0.051	0.011		0.022		0.0048	31
TOTAL	1.840	1.951	2.397	371.842	112.880	37.011	4.687	0.481	25.813	0.985	0.637	1.903	TOTAL
MEAN	0.059	0.070	0.077	12.4	3.84	1.23	0.151	0.016	0.860	0.032	0.021	0.061	MEAN
MAX	0.098	0.073	0.083	33.9	13.5	2.64	0.320	0.043	1.94	0.067	0.031	0.300	MAX
MIN	0.007	0.066	0.072	0.059	0.817	0.163	0.051	0.009	0.010	0.021	0.014	0.002	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.84
MAXIMUM DAILY, 33.9 ON APR 26
MINIMUM DAILY, 0.0028 ON DEC 13
MAXIMUM INSTANTANEOUS,
34.4 AT 17:27 CST ON APR 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 40 N
LONG 100 56 30 W
DRAINAGE AREA, 4 200 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	159	JUL	405
FEB	168	AUG	42.4
MAR	207	SEP	2 230
APR	32 100	OCT	85.1
MAY	9 750	NOV	55.0
JUN	3 300	DEC	164

TOTAL DISCHARGE, 48 800 dam³

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NC024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.0908	0.0388	0.0388	0.0988	8.53	1.37	0.012	0	0.867	0	0.001	0.0028	1
2	0.0908	0.0388	0.0388	0.1088	7.30	1.28	0.026	0	0.834	0	0.001	0.0028	2
3	0.0908	0.0368	0.0398	0.1408	6.54	2.00	0.031	0	0.810	0	0.002	0.0038	3
4	0.0898	0.0368	0.0398	0.2108	5.96	2.46	0.041	0	0.813	0	0.002	0.0038	4
5	0.0898	0.0368	0.0398	0.2908	5.43	1.81	0.057	0	0.884	0	0.003	0.0038	5
6	0.0888	0.0368	0.0418	0.4508	5.09	1.38	0.049	0	0.884	0	0.003	0.1428	6
7	0.0868	0.0358	0.0438	0.5438	4.75	1.09	0.040	0	0.830	0	0.003	0.3348	7
8	0.0858	0.0358	0.0468	1.06 B	4.30	0.802	0.037	0	0.842	0	0.002	0.3438	8
9	0.0828	0.0358	0.0488	3.08 B	2.68	0.719	0.033	0	0.834	0	0.002	0.3038	9
10	0.0808	0.0358	0.0488	4.00 B	0.634	0.584	0.081	0	0.936	0.001	0.002	0.2818	10
11	0.0808	0.0358	0.0478	5.60 B	0.444	0.485	0.050	0	0.907	0.005	0.002	0.3768	11
12	0.0788	0.0358	0.0478	6.31 B	0.484	0.452	0.026	0	0.892	0.005	0.0028	0.4068	12
13	0.0788	0.0358	0.0478	6.53 B	0.454	0.368	0.020	0	0.900	0.006	0.0028	0.4388	13
14	0.0788	0.0358	0.0478	6.58 B	0.415	0.353	0.023	0	0.741	0.006	0.0028	0.4148	14
15	0.0778	0.0358	0.0488	6.72 B	0.407	0.354	0.077	0	0.424	0.005	0.0028	0.4008	15
16	0.0788	0.0358	0.0508	7.31 B	0.504	0.276	0.068	0	0.218	0.003	0.0028	0.4088	16
17	0.0768	0.0358	0.0488	8.37 B	1.63	0.240	0.048	0	0.101	0.002	0.0028	0.4098	17
18	0.0748	0.0358	0.0488	8.81 B	2.41	0.157	0.038	0	0.058	0.001	0.0028	0.3828	18
19	0.0848	0.0358	0.0488	14.2 B	2.81	0.113	0.030	0	0.034	0	0.0028	0.4068	19
20	0.0808	0.0358	0.0528	17.6 B	3.17	0.070	0.021	0	0.025	0	0.0028	0.3748	20
21	0.0588	0.0358	0.0568	23.4	3.33	0.043	0.016	0	0.018	0	0.0028	0.3868	21
22	0.0568	0.0368	0.0628	31.1	3.72	0.036	0.008	0	0.012	0	0.0028	0.3718	22
23	0.0528	0.0368	0.0658	34.1	3.53	0.012	0.007	0	0.008	0	0.0018	0.2698	23
24	0.0428	0.0368	0.0708	36.3	3.44	0.006	0.006	0	0.006	0	0.0028	0.2388	24
25	0.0408	0.0378	0.0728	35.6	2.13	0.021	0.005	0	0.005	0	0.0028	0.2348	25
26	0.0408	0.0378	0.0748	30.0	2.72	0.042	0.004	0	0.004	0	0.0018	0.1878	26
27	0.0388	0.0378	0.0758	23.5	3.61	0.026	0.003	0.483	0.002	0	0.0018	0.2078	27
28	0.0428	0.0388	0.0788	18.3	2.38	0.012	0.001	0.795	0	0	0.0018	0.2258	28
29	0.0388		0.0788	14.4	2.23	0.007	0	0.873	0	0	0.0018	0.2578	29
30	0.0388		0.0808	10.9	1.75	0.011	0	0.830	0	0.001	0.0018	0.3118	30
31	0.0388		0.0908		1.59		0	0.821		0.001		0.3008	31
TOTAL	2.094	1.002	1.697	382.819	94.382	16.530	0.856	4.002	13.067	0.037	0.056	8.430	TOTAL
MEAN	0.068	0.036	0.055	12.1	3.04	0.551	0.028	0.129	0.436	0.001	0.002	0.272	MEAN
MAX	0.090	0.038	0.090	36.3	8.53	2.46	0.081	0.873	0.982	0.006	0.003	0.438	MAX
MIN	0.038	0.035	0.036	0.088	0.407	0.007	0	0	0	0	0.001	0.002	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.01
MAXIMUM DAILY, 36.3 ON APR 24
MINIMUM DAILY, 0 ON JUL 29
MAXIMUM INSTANTANEOUS,
36.9 AT 00:35 CST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 50 28 N
LONG 101 23 48 W
DRAINAGE AREA, 3 880 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	181	JUL	74.0
FEB	86.6	AUG	345
MAR	147	SEP	1 130
APR	21 300	OCT	3.20
MAY	8 150	NOV	4.75
JUN	1 630	DEC	726

TOTAL DISCHARGE, 42 800 dam³

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.2488	0.2088	0.189	0.388	0.859	0.007	0	0.360	---	---	1
2	---	---	0.2488	0.2088	0.180	0.385	0.811	0.003	0	0.356	---	---	2
3	---	---	0.2458	0.2088	0.182	0.462	0.964	0.002	0	0.357	---	---	3
4	---	---	0.2458	0.2038	0.103	0.388	0.974	0.001	0	0.368	---	---	4
5	---	---	0.2418	0.2038	0.068	0.373	0.480	0.001	0	0.384	---	---	5
6	---	---	0.2418	0.2018	0.045	0.352	0.475	0	0	0.403	---	---	6
7	---	---	0.2418	0.2018	0.037	0.340	0.404	0	0	0.345	---	---	7
8	---	---	0.2418	0.1988	0.010	0.359	0.388	0	0	0.242	---	---	8
9	---	---	0.2388	0.1988	0.014	0.338	0.318	0	0	0.173	---	---	9
10	---	---	0.2388	0.1988	0.023	0.406	0.437	0	0	0.112	---	---	10
11	---	---	0.2388	0.1988	0.019	0.337	0.514	0	0.018	0.080	---	---	11
12	---	---	0.2358	0.1938	0.015	0.537	0.521	0	0.018	0.051	---	---	12
13	---	---	0.2358	0.1918	0.031	1.14	0.523	0	0.002	0.045	---	---	13
14	---	---	0.2358	0.1918	0.034	0.980	0.453	0	0	0.128	---	---	14
15	---	---	0.2318	0.1888	0.018	0.834	0.441	0	0	0.034	---	---	15
16	---	---	0.2318	0.1868	0.022	0.765	0.418	0	0	0.018	---	---	16
17	---	---	0.2318	0.1868	0.316	0.728	0.389	0	0	0.042	---	---	17
18	---	---	0.2318	0.1848	0.756	0.659	0.303	0	0	0.049	---	---	18
19	---	---	0.2288	0.2418	0.425	0.615	0.303	0	0	0.053	---	---	19
20	---	---	0.2288	0.3428	0.346	0.540	0.280	0	0	0.082	---	---	20
21	---	---	0.2258	0.6908	0.441	0.473	0.223	0	0	0.084	---	---	21
22	---	---	0.2258	2.36 B	0.406	0.483	0.252	0	0	0.089	---	---	22
23	---	---	0.2218	3.79 B	0.461	0.449	0.238	0.481	0	0.035	---	---	23
24	---	---	0.2218	4.03 B	0.498	0.383	0.139	1.31	0	0.018	---	---	24
25	---	---	0.2188	2.28 B	0.508	1.25	0.108	0.486	0	0.019	---	---	25
26	---	---	0.2188	1.47	0.578	0.801	0.089	0.130	0	0.077	---	---	26
27	---	---	0.2158	0.811	0.527	0.630	0.096	0.033	0	0.090	---	---	27
28	---	---	0.2158	0.371	0.504	0.586	0.057	0.012	0	0.114	---	---	28
29	---		0.2118	0.217	0.406	0.515	0.042	0.004	0.318	0.109	---	---	29
30	---		0.2118	0.187	0.389	0.528	0.035	0.002	0.358	0.078	---	---	30
31	---		0.2088		0.388		0.015	0.001		0.052		---	31
TOTAL	---	---	7.137	20.204	7.920	16.886	10.169	2.453	0.714	4.386	---	---	TOTAL
MEAN	---	---	0.230	0.673	0.255	0.580	0.327	0.079	0.024	0.141	---	---	MEAN
MAX	---	---	0.248	4.03	0.758	1.25	0.874	1.31	0.358	0.403	---	---	MAX
MIN	---	---	0.208	0.187	0.010	0.337	0.015	0	0	0.015	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.288
MAXIMUM DAILY, 4.030 ON APR 24
MINIMUM DAILY, 0 ON AUG 6
MAXIMUM INSTANTANEOUS,
8.768 AT 18:00 CST ON APR 23

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 06 16 N
LONG 100 52 57 W
DRAINAGE AREA, 282 km²

B - ICE CONDITIONS

REGULATED SINCE 1972

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	877
FEB	---	AUG	212
MAR	617	SEP	61.7
APR	1 750	OCT	379
MAY	884	NOV	---
JUN	1 470	DEC	---

TOTAL DISCHARGE, 6 050 dam³

PLUM CREEK NEAR SOURIS - STATION NO 05MG007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.1208	0.001	0.153	0.134	0.092	0.002	0	---	---	1
2	---	---	0 B	0.1508	0.001	0.181	0.121	0.081	0.001	0	---	---	2
3	---	---	0 B	0.2628	0.001	0.162	0.139	0.071	0	0	---	---	3
4	---	---	0 B	0.6068	0.002	0.175	0.139	0.087	0	0	---	---	4
5	---	---	0 B	0.9278	0.005	0.188	0.103	0.088	0	0	---	---	5
6	---	---	0 B	1.07 B	0.005	0.175	0.081	0.084	0	0	---	---	6
7	---	---	0 B	1.20 B	0.003	0.172	0.119	0.072	0	0	---	---	7
8	---	---	0 B	1.17 B	0.001	0.172	0.171	0.080	0	0	---	---	8
9	---	---	0 B	1.26 B	0.003	0.178	0.144	0.048	0	0	---	---	9
10	---	---	0 B	1.17 B	0.007	0.173	0.123	0.037	0	0	---	---	10
11	---	---	0 B	0.9088	0.008	0.188	0.092	0.027	0	0	---	---	11
12	---	---	0.0018	0.6138	0.012	0.178	0.085	0.013	0	0	---	---	12
13	---	---	0.0038	0.456	0.024	0.171	0.113	0.012	0	0	---	---	13
14	---	---	0.0028	0.508	0.031	0.183	0.108	0.009	0	0	---	---	14
15	---	---	0.0018	0.432	0.040	0.140	0.110	0.006	0	0	---	---	15
16	---	---	0 B	0.405	0.044	0.135	0.087	0.004	0	0	---	---	16
17	---	---	0 B	0.368	0.055	0.138	0.088	0.001	0	0	---	---	17
18	---	---	0 B	0.269	0.057	0.147	0.094	0.001	0	0	---	---	18
19	---	---	0 B	0.170	0.080	0.137	0.047	0.001	0	0	---	---	19
20	---	---	0 B	0.091	0.083	0.148	0.080	0.001	0	0	---	---	20
21	---	---	0 B	0.053	0.076	0.222	0.078	0.005	0	0	---	---	21
22	---	---	0 B	0.023	0.078	0.212	0.073	0.004	0	0	---	---	22
23	---	---	0 B	0.015	0.086	0.188	0.087	0.009	0	0	---	---	23
24	---	---	0 B	0.009	0.086	0.188	0.077	0.008	0	0	---	---	24
25	---	---	0 B	0.008	0.087	0.148	0.080	0.007	0	0	---	---	25
26	---	---	0.0018	0.004	0.118	0.181	0.080	0.003	0	0	---	---	26
27	---	---	0.0018	0.002	0.138	0.123	0.048	0.001	0	0	---	---	27
28	---	---	0.0028	0.001	0.145	0.098	0.050	0.001	0	0	---	---	28
29	---		0.0088	0.001	0.183	0.091	0.050	0.001	0	0	---	---	29
30	---		0.0188	0.001	0.187	0.105	0.084	0.001	0	0	---	---	30
31	---		0.0818		0.181		0.099	0.001		0		---	31
TOTAL	---	---	0.085	12.574	1.743	4.717	3.887	0.445	0.003	0	---	---	TOTAL
MEAN	---	---	0.003	0.422	0.056	0.157	0.058	0.027	0	0	---	---	MEAN
MAX	---	---	0.081	1.26	0.183	0.222	0.171	0.087	0.003	0	---	---	MAX
MIN	---	---	0	0.001	0.001	0.091	0.048	0.001	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.094
MAXIMUM DAILY, 1.288 ON APR 9
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
1.470 AT 21:35 CST ON APR 9

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 30 N
LONG 100 18 20 W
DRAINAGE AREA, 8 630 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	388
FEB	---	AUG	73.0
MAR	9.21	SEP	0.26
APR	1 100	OCT	0
MAY	181	NOV	---
JUN	404	DEC	---

TOTAL DISCHARGE, 2 090 dam³

PLUM LAKE ABOVE DELEAU DAM - STATION NO. 05NE601

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	428.674	429.192	429.128	429.033	428.933E	428.890	428.885	---	1
2	---	---	---	---	428.671	429.198	429.140	429.027	428.932E	428.890	428.880	---	2
3	---	---	---	---	428.671	429.204	429.148	429.021	428.931E	428.893	---	---	3
4	---	---	---	---	428.671	429.207	429.146	429.018	428.930	428.893	---	---	4
5	---	---	---	---	428.671	429.207	429.140	429.021	428.924	428.895	---	---	5
6	---	---	---	---	428.668	429.210	429.134	429.015	428.924	428.893	---	---	6
7	---	---	---	---	428.665	429.207	429.128	429.009	428.918	428.893	---	---	7
8	---	---	---	---	428.668	429.204	429.126	429.000	428.912	428.890	---	---	8
9	---	---	---	---	428.668	429.204	429.137	428.997	428.909	428.887	---	---	9
10	---	---	---	---	428.680	429.198	429.174	428.991	428.909	428.887	---	---	10
11	---	---	---	---	428.698	429.195	429.177	428.982	428.905	428.890	---	---	11
12	---	---	---	---	428.732	429.188	429.171	428.976	428.902	428.887	---	---	12
13	---	---	---	428.704	428.744	429.185	429.161	428.969	428.893	428.884	---	---	13
14	---	---	---	428.704	428.838	429.186	429.155	428.957	428.890	428.881	---	---	14
15	---	---	---	428.704	428.899	429.177	429.149	428.951	428.905	428.881	---	---	15
16	---	---	---	428.704	428.963	429.171	429.148	428.948	428.905	428.881	---	---	16
17	---	---	---	428.704	429.006	429.168	429.137	428.942	428.909	428.878	---	---	17
18	---	---	---	428.704	429.040	429.158	429.131	428.945	428.918	428.875	---	---	18
19	---	---	---	428.698	429.070	429.148	429.128	428.939	428.905	428.875	---	---	19
20	---	---	---	428.695	429.094	429.146	429.122	428.939	428.899	428.875	---	---	20
21	---	---	---	428.692	429.116	429.143	429.116	428.942	428.896	428.872	---	---	21
22	---	---	---	428.689	429.134	429.155	429.110	428.939	428.890	428.876	---	---	22
23	---	---	---	428.686	429.149	429.146	429.101	428.936E	428.887	428.872	---	---	23
24	---	---	---	428.686	429.158	429.140	429.097	428.936E	428.881	428.878	---	---	24
25	---	---	---	428.686	429.161	429.134	429.091	428.937E	428.878	428.878	---	---	25
26	---	---	---	428.680	429.177	429.128	429.085	428.936E	428.875	428.875	---	---	26
27	---	---	---	428.680	429.177	429.122	429.058	428.936E	428.869	428.875	---	---	27
28	---	---	---	428.677	429.183	429.116	429.052	428.935E	428.869	428.872	---	---	28
29	---		---	428.677	429.183	429.116	429.046	428.934E	428.866	428.869	---	---	29
30	---		---	428.677	429.186	429.131	429.046	428.933E	428.878	428.869	---	---	30
31	---		---		429.192		429.040	428.933E		428.869		---	31
MEAN	---	---	---	---	428.824	429.170	429.120	428.987	428.901	428.881	---	---	MEAN
MAX	---	---	---	---	429.192	429.210	429.177	429.033	428.933	428.895	---	---	MAX
MIN	---	---	---	---	428.665	429.116	429.040	428.933	428.869	428.869	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 36 30 N
LONG 100 38 28 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

PLUM LAKE NEAR FINDLAY - STATION NO. 05NE609

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	429.193	429.071	428.988E	428.984	---	1
2	---	---	---	---	---	---	---	429.188	429.073	429.003	428.988E	---	2
3	---	---	---	---	---	---	---	429.182	429.074	429.003E	428.987E	---	3
4	---	---	---	---	---	---	---	429.180	429.073	429.002E	428.988E	---	4
5	---	---	---	---	---	---	---	429.182	429.073	429.002E	428.970	---	5
6	---	---	---	---	---	---	---	429.171	429.073	429.002E	428.972E	---	6
7	---	---	---	---	---	---	---	429.165	429.074	429.002	428.974E	---	7
8	---	---	---	---	---	---	---	429.156	429.073	429.000E	428.978	---	8
9	---	---	---	---	---	---	---	429.146	429.073	428.998E	428.973E	---	9
10	---	---	---	---	---	---	---	429.143	429.057	428.998E	428.970E	---	10
11	---	---	---	---	---	---	---	429.135	429.028	428.994E	428.987E	---	11
12	---	---	---	---	---	---	---	429.131	429.028	428.992	428.984	---	12
13	---	---	---	---	---	---	---	429.124	429.011	428.990E	428.988E	---	13
14	---	---	---	---	---	---	---	429.116	429.004	428.988	428.988	---	14
15	---	---	---	---	---	429.388	---	429.111	429.020	428.988E	428.987E	---	15
16	---	---	---	---	---	---	---	429.104	429.024	428.988E	428.988	---	16
17	---	---	---	---	---	---	---	429.100	429.022	428.988	428.988E	---	17
18	---	---	---	---	---	---	---	429.085	429.041	428.987E	428.987E	---	18
19	---	---	---	---	---	---	---	429.082	429.017	428.987E	428.988	---	19
20	---	---	---	---	---	---	---	429.073	429.017	428.988E	---	---	20
21	---	---	---	---	---	---	---	429.078	429.010E	428.988	---	---	21
22	---	---	---	---	---	---	---	429.078	429.003	428.987E	---	---	22
23	---	---	---	---	---	---	---	429.075	428.998E	428.988E	---	---	23
24	---	---	---	---	---	---	---	429.078	428.998E	428.990	---	---	24
25	---	---	---	---	---	---	---	429.078	428.991	428.987E	---	---	25
26	---	---	---	---	---	---	---	429.073	428.988E	428.984E	---	---	26
27	---	---	---	---	---	---	429.232	429.071	428.985	428.981E	---	---	27
28	---	---	---	---	---	---	429.214	429.069	428.988E	428.979E	---	---	28
29	---		---	---	---	429.205	429.070	428.992E	428.978	---	---	---	29
30	---		---	---	---	---	429.206	429.071	428.998E	428.972E	---	---	30
31	---		---		---		429.202	429.071		428.988E		---	31
MEAN	---	---	---	---	---	---	---	429.115	429.029	428.990	---	---	MEAN
MAX	---	---	---	---	---	---	---	429.193	429.074	429.003	---	---	MAX
MIN	---	---	---	---	---	---	---	429.069	428.985	428.985	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 45 N
LONG 100 43 08 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

DRAINAGE AREA,
6 180 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

PLUM RIVER NEAR ROSENFELD - STATION NO. 05DC019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.22 B	0.152	0.028	0.040	0	0	0	---	---	1
2	---	---	0 B	13.7 B	0.148	0.008	0.040	0	0	0	---	---	2
3	---	---	0.0108	23.5 B	0.143	0.006	0.050	0	0	0	---	---	3
4	---	---	0.1208	25.6 B	0.136	0.004	0.052	0	0	0	---	---	4
5	---	---	0.5608	28.2 B	0.132	0.013	0.125	0	0	0	---	---	5
6	---	---	1.20 B	28.5 B	0.124	0.028	0.232	0	0	0	---	---	6
7	---	---	0.5008	25.3 B	0.116	0.024	0.182	0	0	0	---	---	7
8	---	---	0.2308	19.6 B	0.108	0.023	0.116	0	0	0	---	---	8
9	---	---	0.1328	13.5	0.097	0.020	0.073	0	0	0	---	---	9
10	---	---	0.1008	8.42	0.094	0.017	0.046	0	0	0	---	---	10
11	---	---	0.0758	5.85	0.092	0.058	0.026	0	0	0	---	---	11
12	---	---	3.50 B	4.28	0.088	0.183	0.012	0	0	0	---	---	12
13	---	---	7.20 B	3.18	0.088	0.228	0.004	0	0	0	---	---	13
14	---	---	6.50 B	3.41	0.081	0.260	0	0	0	0	---	---	14
15	---	---	6.07 B	2.30	0.076	0.250	0	0	0	0	---	---	15
16	---	---	5.25 B	2.19	0.070	0.188	0	0	0	0	---	---	16
17	---	---	4.50 B	1.67	0.064	0.161	0	0	0	0	---	---	17
18	---	---	3.75 B	1.14	0.061	0.122	0	0	0	0	---	---	18
19	---	---	3.00 B	0.698	0.057	0.084	0	0	0	0	---	---	19
20	---	---	2.25 B	0.611	0.054	0.069	0	0	0	0	---	---	20
21	---	---	1.75 B	0.508	0.054	0.055	0	0	0	0	---	---	21
22	---	---	1.25 B	0.388	0.051	0.228	0	0	0	0	---	---	22
23	---	---	0.7538	0.303	0.050	0.145	0	0	0	0	---	---	23
24	---	---	0.5038	0.260	0.048	0.128	0	0	0	0	---	---	24
25	---	---	1.00 B	0.214	0.044	0.114	0	0	0	0	---	---	25
26	---	---	0.7538	0.184	0.043	0.089	0	0	0	0	---	---	26
27	---	---	0.5038	0.161	0.042	0.086	0	0	0	0	---	---	27
28	---	---	0.4108	0.167	0.048	0.052	0	0	0	0	---	---	28
29	---		1.00 B	0.159	0.045	0.044	0	0	0	0	---	---	29
30	---		3.00 B	0.155	0.040	0.045	0	0	0	0	---	---	30
31	---		5.08 B		0.038		0	0		0		---	31
TOTAL	---	---	80.905	221.144	3.484	2.785	1.006	0	0	0	---	---	TOTAL
MEAN	---	---	1.88	7.37	0.080	0.092	0.032	0	0	0	---	---	MEAN
MAX	---	---	7.20	28.5	0.152	0.250	0.232	0	0	0	---	---	MAX
MIN	---	---	0	0.155	0.038	0.004	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.18
MAXIMUM DAILY, 28.50 ON APR 6
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
22.3B AT 17:18 CST ON APR 6

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 30 N
LONG 97 24 00 W
DRAINAGE AREA, 782 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	65.9
FEB	---	AUG	0
MAR	5 280	SEP	0
APR	19 100	OCT	0
MAY	215	NOV	---
JUN	239	DEC	---

TOTAL DISCHARGE, 24 900 dam³

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	19.5	17.0	14.8	14.4	35.0	131	77.7	35.5	23.5	15.3	14.4	14.1E	1
2	19.3	16.7	14.8	14.3	36.0	139	76.4	35.5	23.4	15.4	14.5	14.0E	2
3	19.3	16.7	15.1	14.1	42.0	137	75.5	33.0	19.4	15.5	14.5	14.0E	3
4	19.4	16.6	15.0	14.1	46.1	132	80.0	78.0	21.5	15.3	14.4	14.0E	4
5	19.4	16.4	15.1	14.1	48.5	116	80.5	73.4	21.7	14.4	13.9	13.9E	5
6	19.2	16.3	14.9	14.1	50.5	123	88.5	71.2	21.3	14.5	14.2	13.9E	6
7	19.0	16.5	14.9	14.1	55.3	117	91.5	64.5	20.8	14.6	14.3	13.9E	7
8	19.1	16.4	15.1	14.2	57.4	121	86.5	62.7	19.3	14.5	14.2	13.9E	8
9	19.0	16.3	15.2	14.3	71.5	107	83.5	60.1	20.0	14.7	14.4	13.9E	9
10	18.7	16.3	15.1	14.2	73.0	96.8	108	57.3	18.5	14.5	14.4	13.9E	10
11	18.7	16.3	15.0	14.1	82.5	94.7	109	54.3	18.0	14.5	14.4	13.8E	11
12	18.6	16.2	15.1	14.2	85.5	105	122	51.2	18.7	14.7	14.3	13.8E	12
13	18.4	16.3	15.2	14.2	103	97.5	127	47.0	18.3	14.5	14.3	13.8E	13
14	18.2	16.2	15.1	14.1	89.4	97.5	132	47.0	18.3	14.5	14.2	13.8E	14
15	18.4	16.1	15.0	14.2	107	99.4	137	43.4	18.2	14.5	14.2	13.8E	15
16	18.2	16.2	15.1	14.3	113	100	134	43.1	17.9	13.9	14.3	13.8E	16
17	17.8	16.0	15.2	14.2	120	99.3	134	42.2	17.7	13.4	14.3	13.8E	17
18	17.7	15.8	15.0	14.3	122	97.7	134	41.5	16.1	14.4	14.3	13.8E	18
19	17.9	15.8	15.0	14.2	122	95.8	134	32.1	16.3	14.6	14.3	13.8E	19
20	17.7	15.8	14.9	14.3	128	93.4	133	37.1	16.7	14.5	14.3	13.8E	20
21	17.6	15.8	14.7	14.6	125	90.1	131	34.8	16.6	14.6	14.3	13.8E	21
22	17.7	15.8	14.7	14.7	125	87.2	131	33.2	15.8	14.8	14.4	13.8E	22
23	17.7	15.4	14.8	15.5	133	86.8	131	32.2	15.3	14.4	14.4	13.8E	23
24	17.5	15.6	14.8	16.3	136	86.3	130	31.8	15.7	14.1	14.5	13.8E	24
25	17.3	15.3	14.7	17.9	134	86.5	118	30.8	15.3	14.3	14.6	13.8E	25
26	17.2	15.2	14.7	18.9	142	84.3	111	29.6	15.3	14.3	14.7	13.8E	26
27	17.3	15.2	14.8	22.4	137	80.9	105	28.7	15.5	14.2	14.7	13.8E	27
28	17.0	15.0	14.8	25.2	141	78.5	101	27.8	15.3	14.0	14.7A	13.8E	28
29	16.8		14.8	27.8	142	78.4	98.8	27.2	15.7	14.3	14.5E	13.8E	29
30	17.0		14.8	31.5	144	78.2	96.6	26.2	15.8	14.4	14.2E	13.8E	30
31	16.8		14.8		135		92.7	24.8		14.5		13.8E	31
TOTAL	583.5	447.7	481.8	489.8	3 114.7	3 028.2	3 288.8	1 491.1	548.3	450.6	421.5	429.3	TOTAL
MEAN	18.2	16.0	14.9	16.3	100	101	106	48.1	18.3	14.5	14.4	13.8	MEAN
MAX	19.5	17.0	15.3	31.5	144	137	137	88.5	23.5	15.8	14.8	14.1	MAX
MIN	16.8	15.0	14.4	14.1	35.0	78.2	77.7	24.8	15.3	13.4	13.9	13.8	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 40.7
MAXIMUM DAILY, 144 ON MAY 30
MINIMUM DAILY, 13.4 ON OCT 17
MAXIMUM INSTANTANEOUS,
150 AT 01:35 CST ON MAY 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 46 40 N
LONG 99 45 10 W
DRAINAGE AREA, 8 790 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	48 700	JUL	293 000
FEB	38 700	AUG	129 000
MAR	39 800	SEP	47 400
APR	42 300	OCT	38 800
MAY	265 000	NOV	37 300
JUN	262 000	DEC	37 100

TOTAL DISCHARGE, 1 280 000 dam³

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	0 B	63.6	0	---	---	---	---	---	---	1
2	---	---	OB	0 B	62.5	0	---	---	---	---	---	---	2
3	---	---	OB	0 B	36.0	0	---	---	---	---	---	---	3
4	---	---	OB	15.48	21.7	0	---	---	---	---	---	---	4
5	---	---	OB	30.08	5.16	0	---	---	---	---	---	---	5
6	---	---	OB	79.18	1.56	0	---	---	---	---	---	---	6
7	---	---	OB	74.78	1.23	0	---	---	---	---	---	---	7
8	---	---	OB	70.38	0.905	0	---	---	---	---	---	---	8
9	---	---	OB	64.08	0.082	0	---	---	---	---	---	---	9
10	---	---	OB	58.68	0	0	---	---	---	---	---	---	10
11	---	---	OB	207 B	0	0	---	---	---	---	---	---	11
12	---	---	OB	117 B	0	0	---	---	---	---	---	---	12
13	---	---	OB	76.3B	0	0	---	---	---	---	---	---	13
14	---	---	OB	66.3B	0	0	---	---	---	---	---	---	14
15	---	---	OB	60.4B	0 A	0	---	---	---	---	---	---	15
16	---	---	OB	54.6B	0	0	---	---	---	---	---	---	16
17	---	---	OB	48.7B	0	0	---	---	---	---	---	---	17
18	---	---	OB	42.8E	0	0	---	---	---	---	---	---	18
19	---	---	OB	37.0E	0	0	---	---	---	---	---	---	19
20	---	---	OB	31.1A	0	0	---	---	---	---	---	---	20
21	---	---	OB	32.0	0	0	---	---	---	---	---	---	21
22	---	---	OB	31.8	0	0	---	---	---	---	---	---	22
23	---	---	OB	31.9	0	0	---	---	---	---	---	---	23
24	---	---	OB	33.0	0	0	---	---	---	---	---	---	24
25	---	---	OB	37.5	0	0	---	---	---	---	---	---	25
25	---	---	OB	55.1	0	0	---	---	---	---	---	---	26
27	---	---	OB	67.6	0	0	---	---	---	---	---	---	27
28	---	---	OB	68.5	0	0	---	---	---	---	---	---	28
29	---		OB	73.0	0	0	---	---	---	---	---	---	29
30	---		OB	72.5	0	0	---	---	---	---	---	---	30
31	---		OB		0		---	---		---		---	31
TOTAL	---	---	0	1 688.6	183.737	0	---	---	---	---	---	---	TOTAL
MEAN	---	---	0	55.6	5.93	0	---	---	---	---	---	---	MEAN
MAX	---	---	0	207	63.6	0	---	---	---	---	---	---	MAX
MIN	---	---	0	0	0	0	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.2
MAXIMUM DAILY, 207B ON APR 11
MINIMUM DAILY, OB ON MAR 1

SUMMARY FOR THE MONTHS MAR TO JUN

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 56 00 N
LONG 98 22 50 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1970

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	0	SEP	---
APR	144 000	OCT	---
MAY	15 800	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 160 000 dam³

PORTAGE RESERVOIR NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ006

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	260.777	260.832	260.812	261.802	263.963	264.634	264.486	264.642	264.584	260.525	---	---	1
2	260.804	260.782	260.952	262.158	263.958	264.615	264.437	264.655	264.575	260.506	---	---	2
3	260.813	260.738	260.825	262.180	263.955	264.633	264.423	264.686	264.556	260.456	---	---	3
4	260.721	260.762	260.828	262.447	263.845	264.686	264.382	264.673	264.538	260.287	---	---	4
5	260.691	260.737	260.920	262.444	264.004	264.623	264.400	264.667	264.524	260.181	---	---	5
6	260.735	260.728	260.911	262.285	264.217	264.590	264.471	264.667	264.481	260.180	---	260.489A	6
7	260.750	260.715	260.912	262.341	264.324	264.625	264.485	264.684	264.407	260.143A	---	---	7
8	260.758	260.733	261.138	262.378	264.361	264.597	264.476	264.662	264.251	260.174A	---	---	8
9	260.738	260.717	261.183	262.410	264.385	264.569	264.451	264.657	264.058	260.140A	260.264A	---	9
10	260.712	260.659	261.059	262.789	264.486	264.512	264.436	264.648	263.853	260.150A	260.226A	---	10
11	260.785	260.743	260.906	263.705E	264.574	264.432	264.408	264.649	263.652	260.159A	260.211A	---	11
12	260.826	260.827	260.967	263.780E	264.595	264.389	264.405	264.651	263.508	---	---	---	12
13	260.788	260.780	261.022	263.825E	264.597	264.439	264.448	264.645	263.301	---	---	260.465A	13
14	260.803	260.788	261.024	263.788E	264.595	264.532	264.525	264.643	263.070	---	---	---	14
15	260.819	260.826	261.089	263.712E	264.596	264.600	264.541	264.644	262.883	---	---	---	15
16	260.783	260.844	261.040	263.695E	264.586	264.609	264.526	264.637	262.642	---	---	---	16
17	260.880	260.859	260.959	263.698E	264.577	264.616	264.513	264.630	262.425	---	---	---	17
18	260.913	260.904	260.847	263.718E	264.571	264.616	264.518	264.635	262.204	---	---	---	18
19	260.873	260.848	260.901	263.717E	264.551	264.617	264.532	264.626	262.027	---	---	---	19
20	260.899	260.711	260.940	263.698E	264.541	264.619	264.546	264.616	261.938	---	---	260.409A	20
21	260.723	260.686	260.917	263.668E	264.534	264.619	264.532	264.620	261.808	---	---	---	21
22	260.687	260.634	260.875	263.645E	264.514	264.617	264.519	264.621	261.685	---	---	---	22
23	260.732	260.921	260.918	263.680A	264.500	264.612	264.516	264.623	261.577	---	---	---	23
24	260.823	260.885	260.894	263.851	264.484	264.613	264.526	264.639	261.518	---	---	---	24
25	260.849	260.886	261.056	263.958	264.476	264.614	264.541	264.638	261.505	260.085A	---	---	25
26	260.887	260.854	261.108	263.955	264.547	264.587	264.549	264.624	261.480	---	---	---	26
27	260.847	260.833	261.218	263.835	264.569	264.557	264.557	264.614	261.384	260.861A	---	---	27
28	260.752	260.779	261.262	263.984	264.559	264.536A	264.570	264.602	261.272	---	---	---	28
29	260.645		261.355	263.962	264.592	264.516	264.579	264.587	261.105	---	---	---	29
30	260.728		261.377	263.958	264.592	264.500	264.610	264.583	260.709	---	---	---	30
31	260.811		261.513		264.645		264.623	264.588		---		---	31
MEAN	260.788	260.785	261.033	263.301	264.431	264.578	264.500	264.636	262.450	---	---	---	MEAN
MAX	260.887	260.921	261.513	263.984	264.645	264.696	264.623	264.673	264.584	---	---	---	MAX
MIN	260.645	260.659	260.812	261.802	263.845	264.389	264.382	264.583	260.709	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 264.696 ON JUN 4

MAXIMUM INSTANTANEOUS,
264.709 AT 12:37 CST ON JUN 4

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 56 10 N
LONG 98 20 10 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1970

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.432B	0.215B	0.262B	6.52B	5.80	4.45	2.48	0.581	0.100	0.092E	0.452	0.419B	1
2	0.389B	0.213B	0.270B	8.29B	5.39	4.30	2.63	0.472	0.081	0.123E	0.480	0.379B	2
3	0.354B	0.207B	0.285B	11.6B	6.02	4.48	3.35	0.438	0.066	0.185E	0.484	0.362B	3
4	0.357B	0.198B	0.299B	14.6B	5.86	4.47	4.32	0.432	0.052	0.235E	0.587	0.341B	4
5	0.345B	0.183B	0.423B	18.6B	5.28	4.22	5.55	0.382	0.045	0.246E	0.608	0.309B	5
6	0.331B	0.169B	3.74B	22.6B	4.97	4.12	5.87	0.340	0.042	0.262E	0.566	0.282B	6
7	0.320B	0.152B	14.1B	26.7B	4.85	3.97	6.01	0.284	0.028	0.278E	0.531	0.272B	7
8	0.321B	0.137B	19.3B	27.3B	4.33	3.78	5.27	0.211	0.014	0.223E	0.593	0.253B	8
9	0.332B	0.129B	20.2B	27.6B	4.05	3.52	4.32	0.181	0.023	0.185E	0.622	0.225B	9
10	0.349B	0.125B	20.0B	25.6B	3.85	3.34	3.60	0.108	0.022	0.159E	0.6048	0.193B	10
11	0.348B	0.129B	18.8B	23.6B	3.83	3.04	3.06	0.089	0.017	0.200E	0.5408	0.183B	11
12	0.330B	0.139B	16.0B	22.3B	3.80	2.88	2.59	0.078	0.014	0.248E	0.5818	0.171B	12
13	0.316B	0.148B	14.3B	21.3B	3.52	2.56	2.41	0.081	0.012	0.199E	0.5598	0.152B	13
14	0.310B	0.153B	12.5B	20.6	3.32	2.57	2.29	0.035	0.009	0.180E	0.5598	0.137B	14
15	0.295B	0.157B	10.6B	19.4	3.22	2.58	2.21	0.020	0.008	0.092E	0.5368	0.123B	15
16	0.284B	0.163B	8.29B	17.6	3.71E	2.77	2.10	0.008	0.008	0.120E	0.5428	0.106B	16
17	0.276B	0.172B	6.04B	16.1	4.24E	2.80	1.84	0.008	0.007	0.097E	0.5188	0.087B	17
18	0.267B	0.191B	4.31B	15.3	4.91E	2.73	1.77	0.003	0.008	0.193A	0.5608	0.078B	18
19	0.250B	0.205B	3.49B	14.7	4.78E	2.58	1.58	0	0.008	0.228	0.5038	0.054B	19
20	0.253B	0.224B	3.29B	14.1	4.57E	2.47	1.43	0	0.313A	0.238	0.4828	0.041B	20
21	0.257B	0.252B	3.12B	13.5	4.39E	2.49	1.31	0	0.272E	0.297	0.5448	0.038B	21
22	0.259B	0.284B	3.07B	12.8	4.20E	2.98	1.14	0	0.242E	0.178	0.7258	0.030B	22
23	0.262B	0.265B	2.81B	12.1	4.06E	3.27	0.985	0	0.221E	0.241	0.6738	0.021B	23
24	0.269B	0.301B	2.73B	11.4	3.91E	3.11	0.796	0.025	0.190E	0.286	0.5648	0.017B	24
25	0.273B	0.301B	2.74B	10.6	3.78A	2.97	0.686	0.044	0.159E	0.319	0.5578	0.027B	25
26	0.263B	0.288B	2.61B	9.86	4.04	2.64	0.609	0.088	0.179E	0.342	0.4808	0.020B	26
27	0.244B	0.272B	2.63B	9.18	4.14	2.47	0.578	0.256	0.164E	0.331	0.4288	0.018B	27
28	0.236B	0.261B	2.54B	8.57	4.24	2.32	0.542	0.310	0.131E	0.355	0.3936	0.018B	28
29	0.232B		2.48B	7.88	4.43	2.20	0.475	0.245	0.105E	0.369	0.3788	0.014B	29
30	0.230B		3.00B	7.27	4.48	2.30	0.438	0.178	0.081E	0.398	0.4388	0.018B	30
31	0.220B		4.73B		4.61		0.434	0.131		0.412		0.020B	31
TOTAL	9.194	5.653	208.959	477.88	138.37	94.17	72.763	4.984	2.677	7.285	15.487	4.386	TOTAL
MEAN	0.297	0.202	6.74	15.9	4.46	3.14	2.35	0.161	0.089	0.235	0.550	0.141	MEAN
MAX	0.432	0.301	20.2	27.6	6.80	4.47	6.01	0.581	0.313	0.412	0.725	0.419	MAX
MIN	0.220	0.136	0.262	6.52	3.22	2.20	0.434	0	0.008	0.092	0.378	0.014	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.85
MAXIMUM DAILY, 27.6B ON APR 9
MINIMUM DAILY, 0 ON AUG 19
MAXIMUM INSTANTANEOUS,
28.1B AT 03:44 CST ON APR 9

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 27 42 N
LONG 97 00 28 W
DRAINAGE AREA, 1 350 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	794	JUL	6 290
FEB	488	AUG	431
MAR	18 100	SEP	231
APR	41 300	OCT	629
MAY	12 000	NOV	1 420
JUN	8 140	DEC	379

TOTAL DISCHARGE, 90 200 dam³

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	6.66	5.43	4.06	2.94	0.589	0.001	0.020	---	---	1
2	---	---	0 B	6.96	5.17	4.07	3.23 A	0.500	0.001	0.036	---	---	2
3	---	---	0 B	7.64	4.88	4.26	3.40 E	0.418	0.001	0.087	---	---	3
4	---	---	0 B	8.28	4.56	4.07	3.80 E	0.290	0	0.107	---	---	4
5	---	---	0.010E	9.09	4.36	3.93	4.00 E	0.223	0	0.094	---	---	5
6	---	---	3.00 E	10.5	4.19	3.86	4.00 E	0.148	0.001	0.086	---	---	6
7	---	---	8.00 E	12.8	3.91	3.71	4.00 E	0.099	0.001	0.105	---	---	7
8	---	---	2.50 E	14.0	3.73	3.45	3.70 E	0.077	0.001	0.073	---	---	8
9	---	---	2.25 E	12.7	3.54	3.32	3.50 E	0.062	0.002	0.062	---	---	9
10	---	---	2.25 E	12.7	3.48	3.03	2.90 E	0.045	0.002	0.047	---	---	10
11	---	---	2.38 E	13.6	3.70	2.78	2.75 E	0.034	0.002	0.051	---	---	11
12	---	---	2.50 E	14.1	3.93	2.52	2.64 E	0.034	0.024	0.063	---	---	12
13	---	---	2.65 E	12.6 B	4.18	2.62A	2.52 A	0.018	0.044	0.077	---	---	13
14	---	---	2.40 E	9.80B	4.06	2.32	2.42	0.011	0.054	0.103	---	---	14
15	---	---	2.45 E	10.6 B	3.86	2.40	2.33	0.008	0.075	0.145	---	---	15
16	---	---	2.50 A	10.9 B	3.86	2.54	2.07	0.004	0.051	0.124	---	---	16
17	---	---	2.44	10.8	3.51	2.52	1.81	0.002	0.050	0.140	---	---	17
18	---	---	2.43	10.5	3.49	2.47	1.78	0.002	0.021	0.164	---	---	18
19	---	---	2.52	10.1	3.38	2.41	2.09	0.001	0.018	0.215	---	---	19
20	---	---	2.74	9.81	3.37	2.57	1.88	0.001	0.026	0.243	---	---	20
21	---	---	2.71	9.53	3.41	2.76	1.80	0.001	0.028	0.286	---	---	21
22	---	---	2.63	9.06	3.43	3.23	1.27	0.001	0.022	0.343	---	---	22
23	---	---	2.21	8.53	3.43	3.12	1.03	0.002	0.021	0.345	---	---	23
24	---	---	2.11	7.98	3.46	3.00	0.915	0.007	0.022	0.505	---	---	24
25	---	---	2.17	7.54	3.54	2.76	0.803	0.003	0.014	0.502	---	---	25
26	---	---	2.17	7.23	3.85	2.60	0.672	0.002	0.014	0.470	---	---	26
27	---	---	2.14	6.84	3.88	2.42	0.578	0.001	0.029	0.430	---	---	27
28	---	---	2.14	6.39	4.01	2.28	0.578	0.002	0.035	0.418	---	---	28
29	---		2.15	5.94	4.00	2.34	0.458	0.002	0.012	0.411	---	---	29
30	---		2.42	5.65	4.08	2.70	0.538	0.003	0.010	0.371	---	---	30
31	---		4.33		4.08		0.692	0.002		0.404		---	31
TOTAL	---	---	87.930	288.75	121.10	90.15	66.995	2.591	0.582	6.945	---	---	TOTAL
MEAN	---	---	2.19	9.63	3.91	3.01	2.15	0.084	0.019	0.211	---	---	MEAN
MAX	---	---	8.00	14.1	5.43	4.26	4.00	0.589	0.075	0.505	---	---	MAX
MIN	---	---	0	5.65	3.37	2.29	0.458	0.001	0	0.020	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.63
MAXIMUM DAILY, 14.1 ON APR 12
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
14.5 AT 21:00 CST ON APR 6

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 04 N
LONG 96 56 39 W
DRAINAGE AREA, 901 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6 790
FEB	---	AUG	224
MAR	5 870	SEP	50.3
APR	24 900	OCT	585
MAY	10 500	NOV	---
JUN	7 790	DEC	---

TOTAL DISCHARGE, 55 700 dam³

RAT RIVER NEAR SUNDOWN - STATION NO. 05UE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.2780	0.2920	0.2330	2.600	3.03	2.42	1.84	0.586	0.921	0.428	0.402	0.3690	1
2	0.2570	0.2900	0.2360	4.250	2.89	2.22	2.25	0.595	0.828	0.738	0.371	0.3240	2
3	0.2600	0.2880	0.2370	5.250	2.72	2.37	3.63	0.609	0.428	0.957	0.377	0.2850	3
4	0.2610	0.3150	0.2410	5.510	2.62	2.42	4.48	0.614	0.288	0.880	0.388	0.2510	4
5	0.2500	0.3660	0.2330	5.670	2.56	2.36	5.01	0.611	0.209	1.04	0.409	0.2330	5
6	0.2470	0.3950	1.02 B	5.910	2.46	2.16	4.83	0.800	0.155	1.01	0.428	0.2300	6
7	0.2420	0.4260	2.81 B	7.470	2.36	1.92	4.24	0.578	0.126	0.817	0.380	0.2058	7
8	0.2410	0.4210	4.03 B	8.200	2.24	1.80	3.34	0.547	0.121	0.645	0.207	0.2510	8
9	0.2470	0.4140	3.69 B	8.650	2.15	1.57	2.54	0.503	0.195	0.788	0.262	0.2098	9
10	0.2520	0.4060	3.57 B	9.170	2.33	1.53	2.07	0.451	0.288	0.892	0.308	0.1848	10
11	0.2560	0.3610	2.92 B	9.130	3.12	1.53	1.85	0.405	0.302	1.04	0.2908	0.1578	11
12	0.2640	0.3070	2.37 B	9.130	5.18	1.53	1.39	0.386	0.314	1.20	0.2768	0.1718	12
13	0.2690	0.2940	1.98 B	8.590	7.38	1.84	1.24	0.323	0.235	1.02	0.2778	0.1928	13
14	0.2710	0.2530	1.43 B	8.230	9.54	2.16	1.03	0.277	0.160	0.928	0.2888	0.2278	14
15	0.2660	0.2340	1.22 B	8.788	10.8	2.52	0.955	0.244	0.150	0.449	0.3028	0.2488	15
16	0.2700	0.2330	0.9988	8.288	9.22	3.30	0.880	0.225	0.248	0.409	0.3278	0.2488	16
17	0.2698	0.2258	0.8648	2.95	7.22	3.35	0.852	0.217	0.451	0.548	0.3588	0.2308	17
18	0.2648	0.2278	0.7358	2.75	5.03	3.11	0.880	0.205	0.632	0.403	0.3388	0.2128	18
19	0.2608	0.2348	0.6588	2.55	5.13	2.88	0.889	0.190	0.600	0.400	0.3628	0.1958	19
20	0.2588	0.2308	0.5258	2.45	4.48	2.40	0.980	0.184	0.525	0.413	0.4578	0.1888	20
21	0.2528	0.2278	0.3678	2.49	3.98	3.33	1.06	0.148	0.485	0.498	0.5148	0.1978	21
22	0.2788	0.2318	0.2478	2.59	3.71	4.04	1.02	0.139	0.448	0.491	0.5158	0.2138	22
23	0.3238	0.2338	0.2178	2.68	3.42	4.71	1.02	0.138	0.386	0.481	0.6088	0.2098	23
24	0.3218	0.2318	0.2008	2.78	3.21	4.89	1.00	0.148	0.326	0.480	0.4648	0.2078	24
25	0.3088	0.2278	0.2138	2.86	2.96	4.41	0.880	0.207	0.381	0.499	0.4418	0.2318	25
26	0.3028	0.2328	0.3098	3.20	2.71	3.87	0.887	0.372	0.327	0.508	0.3988	0.2488	26
27	0.3048	0.2358	0.2238	3.41	2.54	2.85	0.802	0.392	0.231	0.490	0.3808	0.2488	27
28	0.3158	0.2328	0.2698	3.28	2.85	1.58	0.695	1.18	0.198	0.445	0.4148	0.2358	28
29	0.3158		0.3638	3.21	2.71	1.51	0.822	1.76	0.227	0.433	0.3758	0.2248	29
30	0.3068		0.5628	3.16	2.88	1.61	0.583	1.80	0.267	0.409	0.3828	0.2178	30
31	0.2948		1.37 B		2.58		0.584	1.33		0.389		0.1958	31
TOTAL	8.504	8.058	34.358	120.54	126.60	77.80	54.239	15.880	10.219	20.494	11.198	7.046	TOTAL
MEAN	0.274	0.288	1.11	4.02	4.08	2.59	1.75	0.512	0.341	0.661	0.373	0.227	MEAN
MAX	0.323	0.425	4.03	7.47	10.8	4.71	5.01	1.80	0.821	1.20	0.515	0.349	MAX
MIN	0.241	0.225	0.200	2.45	2.15	1.51	0.583	0.136	0.121	0.389	0.207	0.187	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.36
MAXIMUM DAILY, 10.8 ON MAY 15
MINIMUM DAILY, 0.121 ON SEP 6
MAXIMUM INSTANTANEOUS,
12.98 AT 23:48 CST ON APR 6

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 35 N
LONG 98 17 00 W
DRAINAGE AREA, 414 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	735	JUL	4 690
FEB	695	AUG	1 370
MAR	2 960	SEP	883
APR	10 400	OCT	1 770
MAY	10 900	NOV	966
JUN	6 720	DEC	609

TOTAL DISCHARGE, 42 700 dam³

RED DEER LAKE NEAR BARROWS - STATION NO. 05LC003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	281.714	281.685	281.687	281.680	282.141	282.688	282.759	282.727	282.228	282.085	281.980E	281.897	1
2	281.713	281.678	281.672	281.680	282.171	282.678	282.750	282.721	282.187	282.100	281.980A	281.898	2
3	281.714	281.676	281.669	281.658	282.191	282.715	282.755	282.705	282.060	282.101	281.959	281.897	3
4	281.712	281.671	281.669	281.658	282.215	282.725	282.745	282.686	282.169	282.091	281.937	281.891	4
5	281.712	281.669	281.668	281.658	282.231	282.729	282.742	282.664	282.175	282.029	281.842	281.886	5
6	281.708	281.672	281.685	281.656	282.247	282.753	282.763	282.650	282.211	282.059	281.825	281.884	6
7	281.709	281.673	281.674	281.655	282.266	282.771	282.769	282.692	282.192	282.054	281.915	281.881	7
8	281.705	281.678	281.675	281.661	282.287	282.793	282.805	282.693	282.188A	282.053	281.921	281.873	8
9	281.704	281.674	281.675	281.668	282.294	282.803	282.805	282.671	---	282.057	281.931	281.877A	9
10	281.704	281.676	281.680	281.668	282.309	282.809	282.808	282.654	---	282.043	281.947	281.877E	10
11	281.697	281.677	281.678	281.664	282.338	282.811	282.774	282.641	---	282.018	281.935	281.877E	11
12	281.698	281.676	281.677	281.663	282.358	282.817	282.787	282.621	---	282.044	281.932	281.878E	12
13	281.706	281.676	281.676	281.668	282.380	282.818	282.790	282.600	---	282.042A	281.914	281.878E	13
14	281.702	281.675	281.671	281.660	282.401	282.841	282.800	282.574	---	---	281.925	281.878A	14
15	281.706	281.676	281.674	281.669	282.419	282.883	282.794	282.620	---	---	281.931	281.878	15
16	281.700	281.669	281.672	281.667	282.436	282.878	282.804	282.644	---	---	281.938	281.870	16
17	281.694	281.664	281.666	281.661	282.453	282.893	282.798	282.628	---	---	281.921	281.882	17
18	281.696	281.669	281.665	281.652	282.464	282.906	282.837	282.618	---	---	281.918	281.897	18
19	281.702	281.668	281.663	281.656	282.508	282.909	282.841	282.338	---	---	281.914	281.895	19
20	281.700	281.671	281.663	281.656	282.535	282.897	282.844	282.385	---	---	281.934	281.899	20
21	281.696	281.673	281.662	281.662	282.567	282.899	282.831	282.252	---	---	281.933	281.884	21
22	281.695	281.673	281.662	281.667	282.588	282.886	282.788	282.252	---	---	281.918	281.868	22
23	281.693	281.672	281.663	281.761	282.624	282.878	282.811	282.334	---	---	281.918	281.867	23
24	281.687	281.671	281.662	281.811	282.650	282.874	282.810	282.334	---	---	281.911	281.868	24
25	281.683	281.673	281.660	281.674	282.674	282.853	282.803	282.324	---	---	281.903	281.859	25
26	281.685	281.671	281.656	281.838	282.686	282.849	282.784	282.309	---	---	281.912	281.867	26
27	281.686	281.665	281.657	281.896	282.690	282.821	282.764	282.303	---	---	281.910	281.869	27
28	281.687	281.662	281.658	282.042	282.694	282.805	282.749	282.285	282.058A	---	281.914	281.869	28
29	281.687		281.656	282.083	282.701	282.789	282.759	282.277	282.086	---	281.909	281.863	29
30	281.684		281.656	282.111	282.691	282.786	282.739	282.260	282.093	---	281.901	281.838	30
31	281.685		281.660		282.691		282.728	282.252		---		281.837	31
MEAN	281.699	281.673	281.667	281.734	282.480	282.817	282.785	282.480	---	---	281.923	281.885	MEAN
MAX	281.714	281.685	281.680	282.111	282.701	282.909	282.844	282.727	---	---	281.980	281.899	MAX
MIN	281.683	281.662	281.656	281.643	282.141	282.678	282.728	282.252	---	---	281.842	281.837	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 282.909 ON JUN 19
MINIMUM DAILY, 281.643 ON APR 12
MAXIMUM INSTANTANEOUS,
282.928 AT 14:34 CST ON JUN 19

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1913 ADJ.)

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 53 40 N
LONG 101 27 50 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
14 000 km²

RED DEER RIVER NEAR THE MOUTH, LAKE WINNIPEGOSIS - STATION NO. 05LC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	7.288	6.479	5.388	6.188	35.1	76.4	84.0	81.3	39.3	28.5	19.6	14.6 B	1
2	7.288	6.418	5.368	6.198	37.2	75.6	83.4	80.2	36.4	27.3	18.9	14.2 B	2
3	7.248	6.388	5.328	6.228	38.9	89.8	84.9	76.8	51.1	26.4	15.3	13.7 B	3
4	7.248	6.358	5.368	6.298	40.1	94.4	88.0	78.5	34.5	25.8	19.6	13.4 B	4
5	7.218	6.328	5.398	6.388	41.0	101	86.6	76.1	32.4	34.8	24.7	13.1 B	5
6	7.218	6.258	5.428	6.418	41.6	97.5	88.0	74.8	37.4	28.8	19.4	12.7 B	6
7	7.178	6.228	5.458	6.418	42.0	95.4	89.6	76.6	34.4	26.3	21.5	12.4 B	7
8	7.178	6.198	5.488	6.388	42.6	96.8	87.3	70.4	35.4	26.2	21.9	12.1 B	8
9	7.138	6.168	5.518	6.418	44.1	95.9	89.4	67.8	34.3	24.2	17.0	11.7 B	9
10	7.138	6.138	5.548	6.448	47.5	97.2	93.8	67.4	45.0	26.1	18.1	11.4 B	10
11	7.098	6.078	5.578	6.478	50.2	96.8	101	63.9	36.5	31.3	16.5	11.1 B	11
12	7.098	6.048	5.578	6.538	50.6	102	91.5	61.9	35.6	25.4	14.4	10.7 B	12
13	7.058	6.018	5.608	6.568	54.2	113	92.5	66.2	34.7	24.6	19.4	10.4 B	13
14	7.058	5.988	5.638	6.638	55.2	111	86.6	58.6	32.3	24.6	19.1	10.4 B	14
15	7.028	5.948	5.678	6.698	58.5	107	94.4	63.0	32.7	22.2	18.7	10.3 B	15
16	7.028	5.888	5.708	6.758	61.8	106	98.0	52.8	31.0	31.3	16.6	9.548	16
17	6.988	5.858	5.738	6.888	63.4	107	100	55.1	32.4	29.8	17.4	8.798	17
18	6.988	5.828	5.768	6.988	66.8	103	99.1	54.1	55.1	22.3	17.9	7.858	18
19	6.948	5.798	5.798	7.09	68.5	107	99.2	64.5	43.6	22.0	19.0	6.758	19
20	6.948	5.738	5.828	7.47	69.9	106	96.7	48.3	38.3	21.3	19.1	6.298	20
21	6.908	5.708	5.858	8.44	75.8	106	94.4	52.9	34.1	22.5	18.98	6.018	21
22	6.868	5.678	5.888	10.5	78.4	107	103	49.3	30.3	20.3	18.58	5.798	22
23	6.838	5.638	5.918	12.8	79.4	101	92.4	48.2	29.5	22.0	18.08	5.398	23
24	6.788	5.608	5.948	15.5	80.3	95.2	90.3	45.5	31.3	25.7	17.68	5.118	24
25	6.728	5.548	5.988	20.2	77.5	97.3	87.1	45.3	30.6	22.8	17.18	4.858	25
26	6.698	5.518	6.018	25.7	75.9	94.2	88.2	45.1	28.1	20.1	16.68	4.548	26
27	6.668	5.488	6.048	29.6	74.9	92.5	89.4	43.2	29.0	21.0	16.18	4.698	27
28	6.608	5.458	6.078	31.3	72.5	90.0	88.8	43.1	38.8	23.0	15.88	4.908	28
29	6.568		6.108	32.6	78.1	87.3	83.1	39.8	29.2	19.6	15.48	4.908	29
30	6.538		6.108	33.9	81.6	87.6	84.3	40.0	27.9	19.4	14.98	4.758	30
31	6.508		6.138		80.8		84.1	38.5		19.2		4.908	31
TOTAL	215.82	186.57	177.07	351.96	1 867.5	2 938.7	2 819.2	1 831.4	1 061.2	764.8	539.0	277.05	TOTAL
MEAN	6.96	6.85	5.71	11.7	60.2	98.0	90.9	59.1	35.4	24.7	18.0	8.94	MEAN
MAX	7.28	6.47	6.13	33.9	81.6	113	103	81.3	55.1	34.8	24.7	14.6	MAX
MIN	6.50	5.45	5.32	6.18	35.1	75.6	83.1	38.5	27.9	19.2	14.4	4.54	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 35.6
MAXIMUM DAILY, 113 ON JUN 13
MINIMUM DAILY, 4.548 ON DEC 26
MAXIMUM INSTANTANEOUS,
121 AT 16:46 CST ON JUN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 45 N
LONG 101 02 35 W
DRAINAGE AREA, 14 300 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	18 600	JUL	244 000
FEB	14 400	AUG	158 000
MAR	15 300	SEP	91 700
APR	30 400	OCT	65 100
MAY	161 000	NOV	46 600
JUN	254 000	DEC	23 900

TOTAL DISCHARGE, 1 120 000 dam³

RED RIVER ABOVE FLOODWAY CONTROL STRUCTURE - STATION NO. 05OC021

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	222.656A	226.407	224.294	223.944	---	---	---	---	---	---	1
2	---	---	222.644	226.718	224.239	223.957	---	---	---	---	---	---	2
3	---	---	222.648	227.042	224.185	223.958	---	---	---	---	---	---	3
4	---	---	222.647	227.456	224.156	223.910	---	---	---	---	---	---	4
5	---	---	222.646	227.983E	224.130	223.896	---	---	---	---	---	---	5
6	---	---	222.702	228.369A	224.110	223.913	---	---	---	---	---	---	6
7	---	---	223.177	228.682A	224.078	223.918	---	---	---	---	---	---	7
8	---	---	223.777	228.804A	224.071	223.898	---	---	---	---	---	---	8
9	---	---	224.382	228.749A	224.055	223.872	---	---	---	---	---	---	9
10	---	---	224.855	229.029A	224.024	223.835	---	---	---	---	---	---	10
11	---	---	225.338	229.005	223.998	223.821	---	---	---	---	---	---	11
12	---	---	225.808	228.810	224.000	223.808	---	---	---	---	---	---	12
13	---	---	226.185	228.247	223.988	223.850	---	---	---	---	---	---	13
14	---	---	226.477	227.737	224.018	223.832	---	---	---	---	---	---	14
15	---	---	226.689	227.330	224.029	223.834	---	---	---	---	---	---	15
16	---	---	226.751	226.944	224.050	223.811	---	---	---	---	---	---	16
17	---	---	226.780	226.552	224.061	223.925	---	---	---	---	---	---	17
18	---	---	226.734	226.166	224.117	224.196	---	---	---	---	---	---	18
19	---	---	226.644	225.787	224.167	224.372	---	---	---	---	---	---	19
20	---	---	226.533	225.449	224.178	224.387	---	---	---	---	---	---	20
21	---	---	226.407	225.126	224.168	224.329	---	---	---	---	---	---	21
22	---	---	226.287	224.910	224.150	224.356	---	---	---	---	---	---	22
23	---	---	226.176	224.755	224.112	224.299	---	---	---	---	---	---	23
24	---	---	226.073	224.632	224.067	224.173	---	---	---	---	---	---	24
25	---	---	225.966	224.559	224.047	224.099	---	---	---	---	---	---	25
26	---	---	225.901	224.544	224.018	224.203	---	---	---	---	---	---	26
27	---	---	225.812	224.520	224.016	224.464	---	---	---	---	---	---	27
28	---	---	225.720	224.466	224.051	224.709	---	---	---	---	---	---	28
29	---		225.657	224.378	224.043	224.857	---	---	---	---	---	---	29
30	---		225.652	224.338	224.002	224.927	---	---	---	---	---	---	30
31	---		225.916		223.982		---	---		---		---	31
MEAN	---	---	225.214	226.577	224.086	224.111	---	---	---	---	---	---	MEAN
MAX	---	---	226.780	229.029	224.294	224.927	---	---	---	---	---	---	MAX
MIN	---	---	222.644	224.338	223.982	223.808	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 229.029A ON APR 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 45 10 N
LONG 97 08 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

RED RIVER ABOVE RED RIVER FLOODWAY - STATION NO. 05OC026

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	228.519	---	---	---	---	---	---	---	---	1
2	---	---	---	228.417	---	---	---	---	---	---	---	---	2
3	---	---	---	227.180	---	---	---	---	---	---	---	---	3
4	---	---	---	227.586	---	---	---	---	---	---	---	---	4
5	---	---	---	228.090	---	---	---	---	---	---	---	---	5
6	---	---	---	228.452	---	---	---	---	---	---	---	---	6
7	---	---	---	228.768	---	---	---	---	---	---	---	---	7
8	---	---	---	228.732	---	---	---	---	---	---	---	---	8
9	---	---	---	228.930	---	---	---	---	---	---	---	---	9
10	---	---	---	229.116	---	---	---	---	---	---	---	---	10
11	---	---	225.577A	229.113	---	---	---	---	---	---	---	---	11
12	---	---	225.980	228.914	---	---	---	---	---	---	---	---	12
13	---	---	226.257	228.351	---	---	---	---	---	---	---	---	13
14	---	---	226.587	227.845	---	---	---	---	---	---	---	---	14
15	---	---	226.750	227.435	---	---	---	---	---	---	---	---	15
16	---	---	226.828	227.040	---	---	---	---	---	---	---	---	16
17	---	---	226.856	226.638	---	---	---	---	---	---	---	---	17
18	---	---	226.809	226.241	---	---	---	---	---	---	---	---	18
19	---	---	226.718	225.848	---	---	---	---	---	---	---	---	19
20	---	---	226.802	225.500	---	---	---	---	---	---	---	---	20
21	---	---	226.478	225.237A	---	---	---	---	---	---	---	---	21
22	---	---	226.380	---	---	---	---	---	---	---	---	---	22
23	---	---	226.249	---	---	---	---	---	---	---	---	---	23
24	---	---	226.145	---	---	---	---	---	---	---	---	---	24
25	---	---	226.058	---	---	---	---	---	---	---	---	---	25
26	---	---	225.988	---	---	---	---	---	---	---	---	---	26
27	---	---	225.878	---	---	---	---	---	---	---	---	---	27
28	---	---	225.780	---	---	---	---	---	---	---	---	---	28
29	---		225.732	---	---	---	---	---	---	---	---	---	29
30	---		225.734	---	---	---	---	---	---	---	---	---	30
31	---		226.014		---		---	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 229.116 ON APR 10

MAXIMUM INSTANTANEOUS,
229.201 AT 18:11 CST ON APR 10

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 43 26 N
LONG 97 07 49 W

A - MANUAL GAUGE

REGULATED

RED RIVER AT EMERSON - STATION NO. 05OC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	43.68	43.08	33.48	3208	134	89.1	287	95.6	143	58.7	85.0	54.48	1
2	43.08	42.58	34.08	3348	131	86.3	247	89.3	126	56.3	83.8	54.48	2
3	42.58	41.98	34.58	3488	130	85.3	233	85.1	110	54.6	82.9	54.18	3
4	41.98	41.98	35.78	3858	126	84.6	224	84.0	98.2	53.2	82.2	53.88	4
5	41.38	41.68	37.98	3958	122	82.6	217	79.0	88.3	51.6	80.9	53.88	5
6	41.68	41.68	81.78	4428	118	81.9	226	73.9	80.4	50.8	59.4	53.58	6
7	42.28	41.38	136 B	5308	114	79.6	258	71.2	73.3	50.8	58.6	53.58	7
8	42.68	41.18	172 B	6208	110	76.2	288	68.6	68.1	51.1	59.1	53.28	8
9	43.58	40.58	214 B	6998	107	73.4	303	66.2	65.3	51.9	61.6	53.28	9
10	45.38	39.68	288 B	714	104	70.9	305	63.1	62.7	52.3	63.8	53.08	10
11	46.78	39.18	317 B	683	101	68.6	292	60.7	60.7	52.9	63.7	52.48	11
12	48.18	38.68	348 B	609	101	66.5	274	59.0	59.3	54.5	63.5	52.18	12
13	49.38	38.28	374 B	554	102	65.0	252	56.6	58.4	57.0	63.7	51.58	13
14	49.68	37.88	388 B	486	103	64.4	227	54.4	58.4	59.6	63.6	50.48	14
15	50.18	37.88	388 B	427	109	70.0	204	52.5	59.3	60.7	63.4	49.88	15
16	50.48	38.28	388 B	371	117	135	181	50.4	60.3	61.0	63.1	48.78	16
17	49.88	38.58	385 B	324	125	208	159	49.4	60.6	61.2	62.9	48.18	17
18	48.78	39.18	377 B	277	133	219	140	48.3	61.5	61.8	62.8	46.18	18
19	47.88	39.88	368 B	234	135	204	128	48.2	66.2	61.5	62.3	47.98	19
20	47.68	40.28	362 B	226	132	181	115	45.3	80.7	64.5	62.5	47.38	20
21	47.38	40.38	354 B	210	127	160	108	45.3	98.6	75.3	62.3	46.78	21
22	46.78	39.48	348 B	200	122	143	101	46.0	107	83.9	62.1	46.28	22
23	46.28	37.98	337 B	191	118	131	101	47.9	107	84.8	58.88	45.38	23
24	45.98	36.28	328 B	182	111	131	105	51.5	101	81.8	46.78	44.78	24
25	45.68	35.18	320 B	174	109	178	109	65.2	91.2	78.6	54.98	44.28	25
26	45.08	34.08	311 B	168	107	263	110	93.8	82.4	78.0	53.78	43.38	26
27	45.38	33.48	303 B	157	104	307	110	108	75.2	73.8	57.28	42.88	27
28	45.38	33.48	297 B	150	101	318	110	118	68.6	71.5	58.18	43.28	28
29	45.38		284 B	143	97.5	311	109	128	64.0	70.0	54.98	41.88	29
30	45.08		297 B	138	94.8	291	108	148	61.0	68.1	54.78	41.88	30
31	43.98		303 B		92.1		102	152		66.5		41.88	31
TOTAL	1 417.8	1 091.8	8 214.2	10 663	3 535.4	4 323.4	5 707	2 302.5	2 395.6	1 956.3	1 815.8	1 513.5	TOTAL
MEAN	45.7	39.0	265	355	114	144	184	74.3	79.9	63.1	60.5	48.8	MEAN
MAX	50.4	43.0	388	714	135	319	305	152	143	84.8	85.0	54.4	MAX
MIN	41.3	33.4	33.4	138	92.1	84.4	101	45.3	58.4	50.8	48.7	41.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 123
MAXIMUM DAILY, 714 ON APR 10
MINIMUM DAILY, 33.48 ON FEB 27
MAXIMUM INSTANTANEOUS,
732 AT 00:00 CST ON APR 10

SUMMARY FOR THE YEAR 1983

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 30 N
LONG 97 12 40 W
DRAINAGE AREA, 104 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	132 000	JUL	493 000
FEB	94 300	AUG	198 000
MAR	710 000	SEP	207 000
APR	921 000	OCT	169 000
MAY	305 000	NOV	157 000
JUN	374 000	DEC	131 000

TOTAL DISCHARGE, 3 880 000 dam³

RED RIVER AT JAMES AVENUE PUMPING STATION - STATION NO. 05OJ015

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	222.071	222.101	221.921	224.684	223.823	223.698	223.882	223.727	223.724	223.741	222.870	221.917	1
2	222.082	222.104	221.870	224.921	223.782	223.741	223.810	223.753	223.748	222.671	222.686	221.825	2
3	222.057	222.103	221.841	225.205	223.742	223.737	223.732	223.727	223.713	223.677	222.529	221.771	3
4	222.059	222.098	221.810	225.576	223.722	223.684	223.687	223.668	223.717	223.713	222.373	221.760	4
5	222.060	222.092	221.808	226.023	223.719	223.696	223.703	223.667	223.695	223.721	222.238	221.777	5
6	222.058	222.084	221.959	226.539	223.710	223.727	223.729	223.706	223.676	223.715	222.127	221.831	6
7	222.050	222.078	222.163	226.795	223.685	223.742	223.699	223.715	223.670	223.693	222.028	221.873	7
8	222.041	222.083	222.757	226.355	223.742	223.716	223.708	223.706	223.713	223.703	221.978	221.910	8
9	222.040	222.086	223.148	226.606	223.750	223.712	223.739	223.720	223.691	223.707	221.967	221.952	9
10	222.035	222.092	223.443	226.890	223.721	223.693	223.750	223.722	223.670	223.702	221.959	221.988	10
11	222.049	222.102	223.795	226.705	223.695	223.694	223.782	223.731	223.697	223.688	221.957	222.019	11
12	222.060	222.099	224.173	226.558	223.714	223.685	223.789	223.724	223.712	223.691	221.958	222.046	12
13	222.047	222.097	224.491	226.363	223.731	223.739	223.748	223.693	223.721	223.709	221.962	222.084	13
14	222.053	222.097	224.891	225.992	223.754	223.713	223.698	223.692	223.705	223.709	221.967	222.080	14
15	222.082	222.082	225.026	225.746	223.752	223.706	223.672	223.712	223.729	223.692	221.972	222.098	15
16	222.072	222.065	225.019	225.518	223.760	223.698	223.691	223.726	223.730	223.688	221.984	222.130	16
17	222.083	222.053	224.988	225.282	223.758	223.734	223.665	223.749	223.729	223.698	221.939	222.120	17
18	222.092	222.045	224.935	225.055	223.759	223.789	223.693	223.745	223.705	223.705	221.937	222.113	18
19	222.098	222.035	224.884	224.832	223.767	223.807	223.678	223.715	223.717	223.713	221.935	222.113	19
20	222.100	222.032	224.788	224.633	223.759	223.825	223.727	223.725	223.725	223.729	221.955	222.114	20
21	222.101	222.030	224.684	224.239	223.752	223.778	223.695	223.775	223.708	223.711	221.981	222.114	21
22	222.102	222.027	224.583	224.063	223.725	223.835	223.663	223.724	223.710	223.707	221.935	222.111	22
23	222.100	222.007	224.454	223.940	223.710	223.785	223.676	223.709	223.723	223.738	221.908	222.103	23
24	222.100	221.984	224.325	223.856	223.695	223.673	223.725	223.728	223.717	223.710	221.750	222.100	24
25	222.091	221.966	224.226	223.841	223.685	223.685	223.734	223.728	223.729	223.587	221.625	222.088	25
26	222.082	221.954	224.138	223.894	223.690	223.713	223.750	223.703	223.734	223.418	221.668	222.092	26
27	222.077	221.928	224.042	223.922	223.706	223.755	223.725	223.728	223.711	223.298	221.639	222.087	27
28	222.083	221.958	223.959	223.895	223.758	223.786	223.738	223.755	223.716	223.233	221.620	222.082	28
29	222.095		223.901	223.824	223.744	223.823	223.714	223.766	223.688	223.212	221.736	222.072	29
30	222.104		223.925	223.843	223.719	223.889	223.742	223.768	223.739	223.185	221.990	222.082	30
31	222.104		224.218		223.719		223.715	223.721		223.034		222.054	31
MEAN	222.073	222.053	223.747	225.183	223.734	223.745	223.724	223.723	223.712	223.809	222.004	222.018	MEAN
MAX	222.104	222.104	225.026	226.890	223.823	223.835	223.882	223.775	223.749	223.741	222.870	222.130	MAX
MIN	222.035	221.928	221.808	223.824	223.685	223.673	223.663	223.667	223.670	223.034	221.620	221.760	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 223.283
MAXIMUM DAILY, 226.890 ON APR 10
MINIMUM DAILY, 221.620 ON NOV 28
MAXIMUM INSTANTANEOUS,
227.138 AT 16:57 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 45 N
LONG 97 07 50 W

REGULATED

DRAINAGE AREA,
287 000 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

RED RIVER AT ST. ADOLPHE - STATION NO. 05OC803

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	227.277	224.525	224.138	225.540	224.077	224.357	223.800	223.260	222.803	1
2	---	---	---	227.338	224.584	224.107	225.448	224.048	224.388	223.808	223.229	222.650	2
3	---	---	---	227.878	224.504	224.107	225.311E	224.018	224.601	223.748	223.077	222.803	3
4	---	---	---	228.435	224.473	224.077	225.174	223.930	224.205	223.776	222.986	222.772	4
5	---	---	---	228.882	224.443	224.048	225.083	223.870	224.113	223.778	222.894	222.742	5
6	---	---	---	229.350	224.382	224.018	225.052	223.800	224.022	223.748	222.894	222.803	6
7	---	---	---	229.746	224.351	224.048	225.052	223.800	223.930	223.687	222.803	222.833	7
8	---	---	---	229.929	224.321	224.018	225.144	223.870	223.900	223.748	222.833	222.894	8
9	---	---	---	230.112	224.275E	223.985	225.298E	223.870	223.900	223.748	222.803	222.955	9
10	---	223.123	---	229.559	224.229	223.985	225.448	223.839	223.870E	223.717	222.803	222.988	10
11	---	---	226.363	229.959	224.188	223.894	225.540	223.809	223.839E	223.748	222.833	---	11
12	---	---	---	229.746	224.138	223.924	225.509	223.839	223.809	223.748	222.864	223.077	12
13	223.004	---	---	229.335	224.188	223.894	225.448	223.809	223.839	223.748	222.864	223.077	13
14	---	---	---	228.740	224.260	223.894	225.296	223.717	223.748	223.748	222.864	223.077	14
15	---	---	---	228.253	224.229	223.863	225.144	223.778	223.778	223.748	222.894	223.077	15
16	---	---	227.785	227.826	224.229	223.863	224.991	223.778	223.809	223.748	222.864	---	16
17	---	---	227.765	227.338	224.188	224.048	224.839	223.778	223.778	223.717	222.864	---	17
18	---	---	227.734	226.911	224.382	224.018	224.321	223.748	223.748	223.778	222.864	---	18
19	---	---	227.643	226.409	224.443	224.778	224.351E	223.778	223.778	223.809	222.864	---	19
20	---	---	227.521	226.028	224.473	224.839	224.382	223.748E	223.839	223.809	222.864	---	20
21	---	---	227.389	225.692	224.473	224.808	224.290	223.758E	223.778	223.809	222.864	---	21
22	---	---	227.277	225.448	224.443	224.717	224.188	223.748	223.930	223.809	222.864	---	22
23	---	---	227.155	225.288	224.443	224.656	224.048	223.748	224.022	223.869E	222.864	---	23
24	---	---	227.033	225.144	224.351	224.504	224.048	223.748	224.052	223.930	222.864	---	24
25	---	---	226.911	225.052	224.290	224.412	224.048	223.748	224.052	223.839	222.772	---	25
26	---	---	226.820	224.881	224.260	225.235	224.077	223.748	224.022	223.748	222.772	---	26
27	---	---	226.729	224.830	224.229	225.265E	224.077	223.748	223.961	223.626	222.802E	---	27
28	---	---	226.637	224.889	224.199	225.296	224.107	224.295	223.930	223.504	222.833	---	28
29	---		226.576	224.778	224.260	225.508	224.107	224.052	223.900	223.504	222.803	---	29
30	---		226.515	224.686	224.199	225.601	224.107	224.205	223.930	223.412	222.803	---	30
31	---		226.729		224.229		224.107	224.265		223.382		---	31
MEAN	---	---	---	227.348	224.329	224.385	224.760	223.874	223.961	223.732	222.882	---	MEAN
MAX	---	---	---	230.112	224.625	225.601	225.540	224.265	224.601	223.930	223.260	---	MAX
MIN	---	---	---	224.686	224.138	223.863	224.048	223.717	223.748	223.382	222.772	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 230.112 ON APR 9

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 40 50 N
LONG 97 07 14 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

RED RIVER BELOW FLOODWAY CONTROL STRUCTURE - STATION NO. 05DC020

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	226.415	224.326	223.980	---	---	---	---	---	---	1
2	---	---	---	226.713	224.270	223.985	---	---	---	---	---	---	2
3	---	---	---	227.052	224.228	224.000	---	---	---	---	---	---	3
4	---	---	---	227.475	224.180	223.953	---	---	---	---	---	---	4
5	---	---	---	227.897	224.165	223.940	---	---	---	---	---	---	5
6	---	---	---	228.339	224.149	223.981	---	---	---	---	---	---	6
7	---	---	---	228.639	224.123A	223.985	---	---	---	---	---	---	7
8	---	---	---	228.518	224.112E	223.947	---	---	---	---	---	---	8
9	---	---	224.330A	228.689	224.097E	223.918	---	---	---	---	---	---	9
10	---	---	224.796	228.817	224.087E	223.882	---	---	---	---	---	---	10
11	---	---	225.298	228.620	224.042E	223.871	---	---	---	---	---	---	11
12	---	---	225.766	228.414	224.045E	223.858	---	---	---	---	---	---	12
13	---	---	226.133	228.153	224.029E	223.906	---	---	---	---	---	---	13
14	---	---	226.451	227.679	224.051E	223.884	---	---	---	---	---	---	14
15	---	---	226.840	227.275	224.055E	223.888	---	---	---	---	---	---	15
16	---	---	225.717	226.908	224.088E	223.868	---	---	---	---	---	---	16
17	---	---	226.741	226.525	224.092A	223.974	---	---	---	---	---	---	17
18	---	---	226.893	226.143	224.132	224.222	---	---	---	---	---	---	18
19	---	---	226.808	225.778	224.180	224.384	---	---	---	---	---	---	19
20	---	---	226.491	225.443	224.189	224.396	---	---	---	---	---	---	20
21	---	---	226.358	225.119	224.182	224.348	---	---	---	---	---	---	21
22	---	---	226.240	224.902	224.188	224.377	---	---	---	---	---	---	22
23	---	---	226.132	224.752	224.130	224.308	---	---	---	---	---	---	23
24	---	---	226.030	224.643	224.108	224.185A	---	---	---	---	---	---	24
25	---	---	225.941	224.574	224.089	224.113E	---	---	---	---	---	---	25
26	---	---	225.858	224.564	224.043	224.217E	---	---	---	---	---	---	26
27	---	---	225.765	224.547	224.045	224.468E	---	---	---	---	---	---	27
28	---	---	225.678	224.490	224.084	224.723E	---	---	---	---	---	---	28
29	---		225.616	224.400	224.076	224.871E	---	---	---	---	---	---	29
30	---		225.621	224.364	224.038	224.941E	---	---	---	---	---	---	30
31	---		225.907		224.016		---	---		---		---	31
MEAN	---	---	---	226.528	224.115	224.145	---	---	---	---	---	---	MEAN
MAX	---	---	---	228.817	224.326	224.941	---	---	---	---	---	---	MAX
MIN	---	---	---	224.364	224.016	223.858	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 228.817 ON APR 10

MAXIMUM INSTANTANEOUS,
228.912 AT 20:09 CST ON APR 9

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 45 20 N
LONG 97 08 10 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1969

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	0	0	0	0	0	---	---	1
2	---	---	0	0	0	0	0	0	0	0	---	---	2
3	---	---	0	0	0	0	0	0	0	0	---	---	3
4	---	---	0	0	0	0	0	0	0	0	---	---	4
5	---	---	0	0	0	0	0	0	0	0	---	---	5
6	---	---	0	0	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0	0	0	0	0	---	---	8
9	---	---	0	4.09A	0	0	0	0	0	0	---	---	9
10	---	---	0	21.5	0	0	0	0	0	0	---	---	10
11	---	---	0	26.4	0	0	0	0	0	0	---	---	11
12	---	---	0	13.3	0	0	0	0	0	0	---	---	12
13	---	---	0	2.48	0	0	0	0	0	0	---	---	13
14	---	---	0	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	0	0	0	0	0	0	---	---	15
16	---	---	0	0	0	0	0	0	0	0	---	---	16
17	---	---	0	0	0	0	0	0	0	0	---	---	17
18	---	---	0	0	0	0	0	0	0	0	---	---	18
19	---	---	0	0	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	0	0	0	0	0	---	---	21
22	---	---	0	0	0	0	0	0	0	0	---	---	22
23	---	---	0	0	0	0	0	0	0	0	---	---	23
24	---	---	0	0	0	0	0	0	0	0	---	---	24
25	---	---	0	0	0	0	0	0	0	0	---	---	25
26	---	---	0	0	0	0	0	0	0	0	---	---	26
27	---	---	0	0	0	0	0	0	0	0	---	---	27
28	---	---	0	0	0	0	0	0	0	0	---	---	28
29	---		0	0	0	0	0	0	0	0	---	---	29
30	---		0	0	0	0	0	0	0	0	---	---	30
31	---		0		0		0	0		0		---	31
TOTAL	---	---	0	67.77	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	2.26	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	26.4	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.277
MAXIMUM DAILY, 26.4 ON APR 11
MINIMUM DAILY, 0 ON MAR 1
MAXIMUM INSTANTANEOUS,
31.7 AT 02:14 CST ON APR 11

REMARKS - LOCAL INFLOW IS NOT MONITORED

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 45 24 N
LONG 97 07 35 W

A - MANUAL GAUGE

REGULATED SINCE 1969

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	5 880	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 5 880 dam³

RED RIVER NEAR LETELLIER - STATION NO. 05DC010

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	---	---	---	---	---	1
2	---	---	---	---	---	---	---	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	234.141A	---	---	---	---	---	---	---	---	4
5	---	---	---	234.587	---	---	---	---	---	---	---	---	5
6	---	---	---	235.052	---	---	---	---	---	---	---	---	6
7	---	---	---	235.548	---	---	---	---	---	---	---	---	7
8	---	---	---	235.923	---	---	---	---	---	---	---	---	8
9	---	---	---	236.089	---	---	---	---	---	---	---	---	9
10	---	---	---	236.023	---	---	---	---	---	---	---	---	10
11	---	---	---	235.774	---	---	---	---	---	---	---	---	11
12	---	---	---	235.395	---	---	---	---	---	---	---	---	12
13	---	---	---	234.892	---	---	---	---	---	---	---	---	13
14	---	---	---	234.262A	---	---	---	---	---	---	---	---	14
15	---	---	---	---	---	---	---	---	---	---	---	---	15
16	---	---	---	---	---	---	---	---	---	---	---	---	16
17	---	---	---	---	---	---	---	---	---	---	---	---	17
18	---	---	---	---	---	---	---	---	---	---	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	---	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	---	---	---	---	---	---	---	---	---	---	---	25
26	---	---	---	---	---	---	---	---	---	---	---	---	26
27	---	---	---	---	---	---	---	---	---	---	---	---	27
28	---	---	---	---	---	---	---	---	---	---	---	---	28
29	---		---	---	---	---	---	---	---	---	---	---	29
30	---		---	---	---	---	---	---	---	---	---	---	30
31	---		---		---		---	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 54 N
LONG 97 15 16 W

A - MANUAL GAUGE

MAXIMUM DAILY, 236.089 ON APR 9

MAXIMUM INSTANTANEOUS,
236.138 AT 11:30 CST ON APR 9

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1953 ADJ.)

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	70.0B	67.0B	57.9B	5618	395	256E	435	153	195	102	188	71.4B	1
2	70.1B	67.2B	57.3B	6138	386	251E	412	150	194	96.5	188	66.8B	2
3	69.3B	67.6B	56.6B	6888	381	246E	384	144	181	92.2	195	64.3B	3
4	68.4B	68.0B	57.1B	7808	376	233E	362	137	166	89.8	201 E	67.1B	4
5	68.2B	68.4B	58.2B	8808	389	221E	347	131	152	88.8	204 A	72.9B	5
6	67.1B	68.3B	63.7B	9858	384	218A	332	127	135	85.9	205	73.7B	6
7	65.9B	66.1B	104 B	1 1108	384	213E	331	123	123	83.7	208 A	73.7B	7
8	65.2B	65.4B	162 B	1 2708	345	207E	363	119	115	81.3	157	73.3B	8
9	64.5B	64.2B	197 B	1 4208	340	201A	374	116	111	79.4	105	74.6B	9
10	64.1B	64.4B	228 B	1 5808	333	191	392	112	107	78.2	108	74.3B	10
11	64.3B	64.1B	278 B	1 380	317	182	380	108	103	78.2	108	74.6B	11
12	64.3B	64.2B	350 B	1 250	314	174	383	106	99.8	80.0	107	74.1B	12
13	64.0B	64.1B	410 B	1 160	316	170	388	103	95.5	81.9	107	74.3B	13
14	64.3B	63.6B	465 B	1 030	320	165	341	99.3	93.2	84.2	108	73.2B	14
15	65.2B	63.3B	500 B	935	324	158	314	95.6	95.0	86.0	105	70.9B	15
16	66.0B	62.6B	515 B	870	332	150	292	93.6	96.3	87.9	104	69.9B	16
17	66.1B	62.7B	525 B	785	336	214	265	91.5	96.0	87.3	104	69.2B	17
18	65.9B	62.6B	531 B	737	342	292	240	90.4	98.4	88.2	103	68.9B	18
19	66.4B	62.9B	519 B	699	350	336	217	87.5	99.5	89.3	102	69.9B	19
20	66.9B	63.5B	509 B	677	352	351	197	86.8	104	89.9	102	68.3B	20
21	66.6B	63.9B	500 B	501	351	344	180	90.2	112	90.8	102	69.0B	21
22	67.1B	63.6B	494 B	459	343	345	185	87.6	128	97.7	99.3	67.4B	22
23	66.3B	62.5B	487 B	428	338A	314	182	85.5	142	104	91.9B	66.0B	23
24	66.0B	62.4B	479 B	411	324E	281	147	88.3	148	229	87.8B	65.7B	24
25	65.9B	61.2B	471 B	413	315E	266	148	89.2	146	225	87.3B	65.0B	25
26	65.5B	60.3B	465 B	433	308E	302	150	86.6	137 A	216	82.1B	64.2B	26
27	66.1B	59.4B	459 B	436	298E	367	153	118	125	205	71.4B	63.8B	27
28	67.1B	58.7B	455 B	421	293E	418	158	140	117	201	70.5B	63.2B	28
29	67.8B		455 B	400	287E	444	158	159	108	195	80.2B	62.1B	29
30	67.6B		460 B	404	278E	462	158	173	104	188	77.6B	61.5B	30
31	67.4B		484 B		268E		155	185		181		60.6B	31
TOTAL	2 060.8	1 795.0	10 862.7	23 636	10 345	7 972	8 447	3 586.4	3 729.7	3 743.7	3 632.8	2 135.1	TOTAL
MEAN	66.5	64.1	350	788	334	266	272	116	124	121	121	68.9	MEAN
MAX	70.9	67.5	531	1 580	396	462	436	186	196	229	208	74.6	MAX
MIN	64.0	58.7	56.5	400	268	158	147	85.5	93.2	78.2	87.6	60.6	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 225
MAXIMUM DAILY, 1 580B ON APR 10
MINIMUM DAILY, 56.5B ON MAR 3

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 28 N
LONG 96 55 54 W
DRAINAGE AREA, 287 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	178 000	JUL	730 000
FEB	155 000	AUG	310 000
MAR	938 000	SEP	322 000
APR	2 040 000	OCT	323 000
MAY	894 000	NOV	314 000
JUN	689 000	DEC	184 000

TOTAL DISCHARGE, 7 080 000 dam³

REMARKS - THESE DATA ARE A SUMMATION FROM SEVEN UPSTREAM FLOW STATIONS

RED RIVER NEAR ST. NORBERT - STATION NO. 05OC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	---	---	---	---	---	1
2	---	---	---	---	---	---	---	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	---	---	---	---	---	---	4
5	---	---	---	---	---	---	---	---	---	---	---	---	5
6	---	---	---	---	---	---	---	---	---	---	---	---	6
7	---	---	---	---	---	---	---	---	---	---	---	---	7
8	---	---	---	---	---	---	---	---	---	---	---	---	8
9	---	---	---	1 070	---	---	---	---	---	---	---	---	9
10	---	---	---	1 220	---	---	---	---	---	---	---	---	10
11	---	---	---	1 120	---	---	---	---	---	---	---	---	11
12	---	---	---	1 060	---	---	---	---	---	---	---	---	12
13	---	---	---	1 010	---	---	---	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	---	---	---	---	---	---	---	---	---	---	15
16	---	---	---	---	---	---	---	---	---	---	---	---	16
17	---	---	---	---	---	---	---	---	---	---	---	---	17
18	---	---	---	---	---	---	---	---	---	---	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	---	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	---	---	---	---	---	---	---	---	---	---	---	25
26	---	---	---	---	---	---	---	---	---	---	---	---	26
27	---	---	---	---	---	---	---	---	---	---	---	---	27
28	---	---	---	---	---	---	---	---	---	---	---	---	28
29	---		---	---	---	---	---	---	---	---	---	---	29
30	---		---	---	---	---	---	---	---	---	---	---	30
31	---		---		---		---	---		---		---	31
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	TOTAL
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS APR TO MAY

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 47 10 N
LONG 97 08 13 W
DRAINAGE AREA, 124 000 km²

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	--
FEB	---	AUG	---
MAR	---	SEP	---
APR	---	OCT	---
MAY	---	NOV	---
JUN	---	DEC	---

REMARKS - DAILY DISCHARGES ARE PUBLISHED ONLY FOR PERIODS OF RED RIVER FLOODWAY OPERATION

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	45.7B	44.4B	35.2B	4518	185	112	312	107	155	87.9	87.4A	52.0B	1
2	45.3B	43.9B	35.1B	4948	158	108	295	102	154	81.9	85.8	49.9B	2
3	44.8B	43.4B	35.1B	5468	152	106	278	95.6	142	58.6	85.4	48.7B	3
4	44.6B	43.0B	35.3B	6128	148	102	263	88.3	128	56.2	84.5	48.6B	4
5	44.0B	42.9B	36.0B	6878	145	99.4	252	84.1	115	54.7	82.6	48.3B	5
6	43.3B	42.8B	43.9B	7758	141	97.1	246	80.6	100	52.8	82.2	49.0B	6
7	42.8B	42.7B	90.4B	8328	138	95.7	251	76.5	88.8	51.1	82.0	50.2B	7
8	42.6B	42.6B	156 B	8898	133	93.4	270	73.2	80.8	50.0	80.8	51.3B	8
9	42.7B	42.5B	222 B	9038	129	90.1	292	70.2	75.5	49.2	81.0	52.3B	9
10	42.9B	42.4B	282 B	9618	124	85.6	309	67.7	69.1	48.3	81.9	53.0B	10
11	43.1B	42.1B	345 B	0108	119	82.0	313	64.9	65.3	49.5	83.9	53.0B	11
12	43.8B	41.5B	398 B	984	117	78.9	308	62.2	63.4	51.0	85.6	52.8B	12
13	44.6B	40.9B	439 B	877	115	77.5	295	59.3	61.8	52.7	86.9	52.2B	13
14	45.2B	40.3B	473 B	787	115	76.1	277	56.3	59.9	54.9	88.1	51.2B	14
15	45.7B	39.8B	496 B	665	119	74.8	257	53.8	59.8	57.3	88.2	50.5B	15
16	45.9B	39.6B	506 B	574	126	77.6	235	52.1	60.3	59.6	88.3	49.9B	16
17	46.1B	39.5B	508 B	493	135	120	212	50.2	60.1	60.8	88.3	49.3B	17
18	46.1B	39.4B	501 B	424	145	165	190	48.7	58.9	61.8	88.2	48.8B	18
19	46.1B	39.5B	490 B	365	154	216	169	47.3	59.9	62.7	88.2	48.0B	19
20	46.3B	39.8B	475 B	323E	159	221	151	45.9	64.2	63.0	88.1	47.4B	20
21	45.9B	40.1B	462 B	281A	158	211	136	47.1	73.7	63.7	88.3	46.7B	21
22	45.9B	40.4B	451 B	258	155	197	122	46.1	88.5	70.3	83.6B	46.1B	22
23	45.8B	40.3B	440 B	241	150	183	112	44.3	102	78.3	86.3B	45.2B	23
24	45.4B	39.8B	426 B	229	144	167	108	46.7	105	84.9	43.6B	44.5B	24
25	45.1B	38.6B	416 B	218	138	151	109	47.7	109	83.6	90.3B	43.8B	25
26	44.8B	37.5B	406 B	210	134	182	111	54.1	102	78.5	88.3B	43.1B	26
27	44.8B	36.5B	395 B	201	130	250	113	74.6	82.3	74.9A	86.8B	42.3B	27
28	44.7B	35.7B	387 B	192	128	295	115	88.1	83.9	73.5E	84.1B	41.7B	28
29	44.7B		382 B	181	125	317	115	116	76.6	72.0E	83.2B	41.0B	29
30	44.5B		382 B	172	120	322	114	131	71.4	70.5E	83.1B	40.6B	30
31	44.6B		401 B		116		112	148		69.0E		40.3B	31
TOTAL	1 387.6	1 141.9	10 163.0	15 795	4 235	4 495.2	6 442	2 236.6	2 630.2	1 944.8	1 851.9	1 481.5	TOTAL
MEAN	44.8	40.8	328	527	137	150	208	72.1	87.7	62.7	61.7	47.8	MEAN
MAX	46.3	44.4	508	1 010	165	322	313	148	155	84.9	87.4	53.0	MAX
MIN	42.6	35.7	35.1	172	115	74.8	108	44.3	58.9	48.3	43.6	40.3	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 147
MAXIMUM DAILY, 1 010B ON APR 11
MINIMUM DAILY, 35.1B ON MAR 2
MAXIMUM INSTANTANEOUS,
1 030B AT 01:00 CST ON APR 11

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 40 N
LONG 97 10 52 W
DRAINAGE AREA, 117 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	120 000	JUL	557 000
FEB	98 700	AUG	193 000
MAR	878 000	SEP	227 000
APR	1 380 000	OCT	168 000
MAY	366 000	NOV	160 000
JUN	388 000	DEC	128 000

TOTAL DISCHARGE, 4 640 000 dam³

RED SUCKER LAKE AT RED SUCKER LAKE - STATION NO. 04AC003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	30.041	29.947	29.857	29.783	29.805	30.310	30.417	30.398	30.248	30.147	30.155	30.158	1
2	30.043	29.949	29.852	29.776	29.813	30.319	30.420	30.400	30.235	30.144	30.149	30.153	2
3	30.031	29.939	29.848	29.772	29.825	30.329	30.419	30.398	30.256	30.132	30.151	30.141	3
4	30.034	29.937	29.849	29.778	29.831	30.339	30.425	30.389	30.233	30.129	30.156	30.145	4
5	30.028	29.932	29.838	29.763	29.842	30.341	30.424	30.378	30.219	30.130	30.165	30.139	5
6	30.026	29.926	29.834	29.779	29.845	30.357	30.420	30.389	30.211	30.133	30.156	30.127	6
7	30.021	29.928	29.846	29.781	29.855	30.381	30.419	30.354	30.201	30.124	30.152	30.120	7
8	30.011	29.916	29.842	29.782	29.865	30.385	30.412	30.332	30.200	30.122	30.170	30.121	8
9	30.016	29.919	29.845	29.780	29.871	30.374	30.410	30.329	30.201	30.110	30.169	30.115	9
10	30.012	29.919	29.845	29.779	29.883	30.381	30.419	30.338	30.183	30.118	30.160	30.108	10
11	30.005	29.916	29.835	29.774	29.902	30.377	30.428	30.326	30.182	30.125	30.160	30.114	11
12	30.002	29.919	29.837	29.778	29.918	30.381	30.433	30.320	30.178	30.136	30.155	30.110	12
13	29.999	29.914	29.841	29.774	29.956	30.392	30.436	30.318	30.180	30.139	30.157	30.111	13
14	29.993	29.912	29.847	29.774	29.974	30.398	30.429	30.318	30.185	30.147	30.150	30.117	14
15	29.987	29.907	29.833	29.771	29.989	30.401	30.415	30.301	30.157	30.145	30.139	30.110	15
16	29.988	29.908	29.842	29.769	30.002	30.413	30.414	30.283	30.148	30.160	30.138	30.114	16
17	30.000	29.898	29.835	29.767	30.022	30.418	30.405	30.278	30.141	30.170	30.135	30.113	17
18	29.987	29.884	29.830	29.765	30.043	30.415	30.452	30.273	30.148	30.154	30.129	30.111	18
19	29.978	29.885	29.825	29.764	30.063	30.417	30.460	30.283	30.155	30.150	30.131	30.110	19
20	29.982	29.888	29.825	29.761	30.074	30.418	30.452	30.281	30.149	30.149	30.128	30.106	20
21	29.988	29.883	29.823	29.758	30.103	30.417	30.445	30.281	30.139	30.156	30.126	30.093	21
22	29.980	29.878	29.817	29.756	30.128	30.413	30.442	30.279	30.140	30.161	30.148	30.083	22
23	29.984	29.885	29.820	29.754	30.149	30.430	30.438	30.268	30.142	30.157	30.141	30.084	23
24	29.980	29.891	29.811	29.753	30.170	30.436	30.439	30.271	30.144	30.158	30.162	30.086	24
25	29.970	29.872	29.801	29.754	30.185	30.441	30.439	30.267	30.146	30.160	30.171	30.086	25
26	29.968	29.878	29.805	29.764	30.208	30.438	30.421	30.265	30.138	30.162	30.168	30.082	26
27	29.987	29.886	29.812	29.784	30.226	30.433	30.424	30.260	30.142	30.157	30.176	30.077	27
28	29.960	29.888	29.811	29.785	30.247	30.430	30.426	30.262	30.144	30.156	30.176	30.066	28
29	29.956		29.801	29.795	30.266	30.437	30.415	30.260	30.143	30.150	30.189	30.061	29
30	29.950		29.797	29.803	30.283	30.437	30.410	30.258	30.137	30.153	30.186	30.057	30
31	29.947		29.791		30.300		30.405	30.246		30.148		30.063	31
MEAN	29.995	29.906	29.829	29.773	30.021	30.384	30.428	30.309	30.173	30.145	30.153	30.106	MEAN
MAX	30.043	29.949	29.857	29.803	30.300	30.441	30.460	30.400	30.256	30.170	30.176	30.158	MAX
MIN	29.947	29.888	29.791	29.763	29.805	30.310	30.405	30.246	30.137	30.110	30.125	30.057	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 30.104
MAXIMUM DAILY, 30.460 ON JUL 19
MINIMUM DAILY, 29.753 ON APR 24
MAXIMUM INSTANTANEOUS,
30.475 AT 18:15 CST ON JUL 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 08 23 N
LONG 93 33 53 W

NATURAL FLOW

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

REINDEER LAKE AT BROCHET - STATION NO. 06DB001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	334.915	334.806	334.658	334.557	334.686	335.001	---	335.488	335.683	335.706	335.679	1
2	---	334.910	334.800	334.648	334.551	334.679	335.004	---	335.429	335.625	335.758	335.683	2
3	---	334.904	334.795	334.643	334.551	334.701	334.945	---	335.379	335.680	335.779	335.675	3
4	---	334.904	334.795	334.638	334.585	334.723	334.989	---	335.482	335.697	335.722	335.680	4
5	---	334.926	334.785	334.625	334.580	334.733	335.019	---	335.488	335.673	335.729	335.677	5
6	---	334.900	334.784	334.611	334.574	334.726	335.038	---	335.484	335.675	335.739	335.671	6
7	---	334.908	334.784	---	334.565	334.728	335.031	---	335.508	335.684	335.706	335.690	7
8	---	334.911	334.786	---	334.588	334.749	335.039	---	335.508	335.686	335.703	335.683	8
9	---	334.888	334.774	---	334.561	334.752	335.068	335.325A	335.505	335.721	335.714	335.681	9
10	335.011	334.880	334.767	---	334.554	334.766	335.067	335.345	335.480	335.694	335.735	335.665	10
11	335.005	334.872	334.752	---	334.568	334.762	335.067	335.354	335.489	335.683	335.744	335.671	11
12	334.995	334.866	334.741	---	334.574	334.769	335.074	335.366	335.506	335.740	335.731	335.686	12
13	334.989	334.863	334.729	334.586A	334.566	334.802	335.083	335.401	335.515	335.681	335.699	335.675	13
14	334.981	334.862	334.738	---	334.582	334.824	335.057	335.356	335.519	335.696	335.712	335.661	14
15	334.989	334.861	334.732	---	334.592	334.863	335.070	335.326	335.566	335.732	335.751	335.660	15
16	334.978	334.861	334.726	---	334.592	334.883	335.120	335.384	335.572	335.718	335.733	---	16
17	334.962	334.847	334.737	---	334.606	334.888	335.147	335.376	335.448	335.686	335.700	---	17
18	334.985	334.834	334.738	---	334.599	334.893	335.170A	335.381	335.386	335.785	335.685	---	18
19	334.972	334.838	334.729	---	334.603	334.889	---	335.301	335.466	335.770	335.694	---	19
20	334.971	334.832	334.724	---	334.606	334.887	---	335.404	335.529	335.742	335.684	---	20
21	334.950	334.826	334.717	---	334.610	334.887	---	335.422	335.560	335.726	335.677	---	21
22	334.961	334.828	334.708	---	334.631	334.906	---	335.408	335.645	335.723	335.704	---	22
23	334.951	334.817	334.695	---	334.624	334.946	---	335.411	335.636	335.749	335.681	---	23
24	334.950	334.812	334.698	---	334.631	334.949	---	335.430	335.646	335.746	335.646	---	24
25	334.919	334.815	334.698	---	334.626	334.893	---	335.436	335.657	335.714	335.652	---	25
26	334.940	334.805	334.693	334.637	334.634	334.952	---	335.437	335.643	335.740	335.707	---	26
27	334.928	334.802	334.686	334.646	334.654	334.977	---	335.438	335.644	335.706	335.727	---	27
28	334.923	334.813	334.674	334.650	334.658	334.981	---	335.457	335.668	335.729	335.695	---	28
29	334.918		334.666	334.657	334.653	334.991	---	335.456	335.719	335.783	335.681	---	29
30	334.923		334.657	334.656	334.670	334.985	---	335.458	335.716	335.738	335.703	---	30
31	334.926		334.658		334.689		---	335.457		335.734		---	31
MEAN	---	334.881	334.735	---	334.589	334.837	---	---	335.543	335.714	335.710	---	MEAN
MAX	---	334.928	334.806	---	334.670	334.981	---	---	335.719	335.770	335.779	---	MAX
MIN	---	334.802	334.657	---	334.551	334.666	---	---	335.379	335.625	335.646	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 335.779 ON NOV 3

MAXIMUM INSTANTANEOUS,
335.818 AT 07:20 CST ON OCT 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 52 50 N
LONG 101 40 00 W

A - MANUAL GAUGE

REGULATED SINCE 1930

WATER LEVELS ARE REFERRED TO DEPARTMENT OF NATURAL RESOURCES DATUM (SOUTHEND)

RENNIE RIVER NEAR RENNIE - STATION NO. 05PE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.205	0.170	0.109	0.203	0.023	1.87	0.726	0.058	0.030	0.010	0.007	0.004	1
2	0.200	0.168	0.108	0.225	0.032	1.83	0.740	0.057	0.029	0.009	0.006	0.004	2
3	0.194	0.162	0.132	0.233	0.054	1.81	0.778	0.056	0.026	0.009	0.006	0.004	3
4	0.195	0.155	0.130	0.333	0.093	1.81	0.762	0.057	0.022	0.009	0.005	0.004	4
5	0.193	0.151	0.158	0.238	0.142	1.43	0.755	0.054	0.022	0.009	0.005	0.004	5
6	0.191	0.148	0.188	0.244	0.188	1.34	0.749	0.052	0.021	0.009	0.004	0.004	6
7	0.193	0.143	0.211	0.259	0.219	1.31	0.725	0.047	0.021	0.010	0.005	0.003	7
8	0.194	0.137	0.209	0.270	0.251	1.23	0.712	0.049	0.022	0.050	0.004	0.004	8
9	0.211	0.137	0.214	0.285	0.287	1.20	0.722	0.050	0.022	0.145	0.004	0.003	9
10	0.217	0.136	0.220	0.315	0.320	1.17	0.700	0.048	0.021	0.050	0.004	0.003	10
11	0.214	0.148	0.217	0.335	0.359	1.14	0.864	0.049	0.019	0.008	0.005	0.003	11
12	0.215	0.148	0.211	0.334	0.481	1.10	0.676	0.051	0.018	0.007	0.005	0.003	12
13	0.215	0.145	0.208	0.349	0.659	1.10	0.646	0.045	0.019	0.008	0.005	0.003	13
14	0.233	0.140	0.208	0.360	0.895	1.05	0.615	0.043	0.019	0.006	0.004	0.003	14
15	0.233	0.134	0.182	0.180	0.795	1.05	0.613	0.041	0.020	0.008	0.004	0.003	15
16	0.231	0.138	0.186	0.012	0.802	1.03	0.494	0.040	0.020	0.006	0.004	0.003	16
17	0.229	0.133	0.188	0.012	1.02	1.02	0.402	0.042	0.018	0.007	0.004	0.003	17
18	0.226	0.132	0.188	0.012	1.83	0.994	0.351	0.042	0.013	0.007	0.004	0.003	18
19	0.217	0.148	0.186	0.013	2.35	0.982	0.347	0.038	0.013	0.007	0.004	0.003	19
20	0.220	0.147	0.182	0.017	2.34	0.933	0.335	0.037	0.012	0.006	0.004	0.003	20
21	0.211	0.140	0.178	0.026	2.32	0.928	0.302	0.037	0.013	0.006	0.004	0.003	21
22	0.204	0.137	0.188	0.044	2.22	0.858	0.195	0.038	0.012	0.006	0.004	0.003	22
23	0.204	0.134	0.184	0.071	2.18	0.874	0.190	0.038	0.013	0.006	0.004	0.003	23
24	0.198	0.130	0.154	0.107	2.04	0.868	0.098	0.038	0.013	0.007	0.004	0.003	24
25	0.198	0.121	0.147	0.141	2.02	0.848	0.088	0.038	0.013	0.006	0.004	0.003	25
26	0.193	0.115	0.153	0.086	2.00	0.893	0.078	0.060	0.012	0.005	0.004	0.003	26
27	0.184	0.112	0.152	0.023	1.92	0.837	0.074	0.038	0.012	0.005	0.004	0.003	27
28	0.178	0.111	0.150	0.021	1.85	0.807	0.070	0.038	0.010	0.005	0.004	0.003	28
29	0.181		0.144	0.021	1.79	0.761	0.067	0.033	0.010	0.008	0.004	0.003	29
30	0.180		0.135	0.022	1.77	0.738	0.067	0.034	0.010	0.007	0.004	0.003	30
31	0.178		0.147		1.73		0.061	0.034		0.008		0.003	31
TOTAL	6.330	3.910	5.394	4.680	34.730	33.250	13.382	1.382	0.535	0.489	0.138	0.100	TOTAL
MEAN	0.204	0.140	0.173	0.156	1.12	1.11	0.428	0.044	0.018	0.016	0.005	0.003	MEAN
MAX	0.233	0.170	0.220	0.360	2.35	1.87	0.778	0.058	0.030	0.145	0.008	0.004	MAX
MIN	0.178	0.111	0.108	0.012	0.023	0.738	0.061	0.033	0.010	0.005	0.004	0.003	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.285
MAXIMUM DAILY, 2.35 ON MAY 19
MINIMUM DAILY, 0.003 ON DEC 7
MAXIMUM INSTANTANEOUS,
2.56 AT 14:27 CST ON MAY 18

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 42 N
LONG 95 32 40 W
DRAINAGE AREA, 189 km²

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	547	JUL	1 150
FEB	338	AUG	118
MAR	463	SEP	46.4
APR	404	OCT	42.2
MAY	3 000	NOV	11.9
JUN	2 870	DEC	8.64

TOTAL DISCHARGE, 9 000 dam³

RIVERS RESERVOIR NEAR RIVERS - STATION NO. 05MF020

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	487.996	487.691	487.343	487.058	488.053	488.533	488.380	488.334	488.076	487.883	487.205	488.092	1
2	487.988	487.678	487.330	487.063	488.027	488.528	488.380	488.328	488.061	487.868	487.202	488.083	2
3	487.978	487.668	487.324	487.054	488.885	488.530	488.381	488.320	488.039	487.837	487.181	488.078	3
4	487.972	487.658	487.313	487.055	488.825	488.525	488.378	488.310	488.023	487.820	487.182	488.085	4
5	487.958	487.643	487.302	487.062	488.796	488.507	488.364	488.302	488.008	487.805	487.177	488.058	5
6	487.951	487.630	487.303	487.062	488.765	488.498	488.385	488.290	487.989	487.487	487.173	488.048	6
7	487.943	487.618	487.305	487.122	488.742	488.485	488.380	488.283	487.970	487.472	487.187	488.037	7
8	487.932	487.602	487.303	487.187	488.725	488.481	488.359	488.274	487.957	487.455	487.158	488.029	8
9	487.924	487.590	487.282	487.378	488.712	488.467	488.353	488.268	487.940	487.437	487.148	488.020	9
10	487.914	487.578	487.260	487.630	488.688	488.464	488.354	488.252	487.918	487.424	487.140	488.011	10
11	487.908	487.562	487.268	487.877	488.670	488.450	488.344	488.254	487.903	487.408	487.132	488.004	11
12	487.894	487.551	487.257	488.052	488.650	488.458	488.345	488.245	487.886	487.393	487.122	488.894	12
13	487.886	487.537	487.264	488.171	488.622	488.458	488.344	488.242	487.871	487.376	487.118	488.883	13
14	487.876	487.525	487.231	488.262	488.587	488.454	488.338	488.234	487.856	487.360	487.107	488.872	14
15	487.868	487.514	487.221	488.329	488.568	488.445	488.330	488.229	487.849	487.343	487.099	488.861	15
16	487.857	487.501	487.207	488.380	488.540	488.432	488.328	488.218	487.822	487.325	487.091	488.852	16
17	487.848	487.482	487.188	488.372	488.524	488.427	488.326	488.214	487.806	487.309	487.085	488.841	17
18	487.837	487.462	487.185	488.378	488.508	488.413	488.326	488.210	487.776	487.285	487.078	488.829	18
19	487.827	487.447	487.174	488.382	488.485	488.393	488.338	488.198	487.764	487.277	487.072	488.818	19
20	487.820	487.454	487.182	488.821	488.467	488.388	488.338	488.193	487.744	487.288	487.067	488.803	20
21	487.810	487.441	487.183	488.788	488.811	488.389	488.342	488.182	487.727	487.283	487.061	488.789	21
22	487.800	487.427	487.162	488.824	488.520	488.408	488.343	488.181	487.705	487.270	487.054	488.773	22
23	487.790	487.415	487.133	488.809	488.521	488.405	488.347	488.175	487.684	487.270	487.050	488.756	23
24	487.782	487.402	487.124	488.852	488.529	488.405	488.347	488.168	487.688	487.288	487.043	488.726	24
25	487.771	487.383	487.118	488.828	488.539	488.400	488.352	488.187	487.654	487.282	487.035	488.724	25
26	487.760	487.378	487.109	488.884	488.555	488.393	488.353	488.148	487.634	487.264	487.028	488.707	26
27	487.751	487.384	487.098	488.925	488.558	488.383	488.354	488.131	487.618	487.248	487.019	488.699	27
28	487.738	487.355	487.088	488.824	488.561	488.378	488.350	488.119	487.600	487.240	487.014	488.671	28
29	487.725		487.081	488.853	488.551	488.378	488.344	488.108	487.581	487.229	487.008	488.655	29
30	487.715		487.071	488.583	488.548	488.380	488.342	488.099	487.575	487.223	486.987	488.638	30
31	487.703		487.065		488.540		488.340	488.083		487.213		488.619	31
MEAN	487.858	487.522	487.207	488.130	488.532	488.443	488.350	488.218	487.824	487.256	487.101	488.633	MEAN
MAX	487.996	487.691	487.343	488.382	488.853	488.533	488.381	488.334	488.076	487.883	487.205	488.892	MAX
MIN	487.703	487.355	487.065	487.063	488.485	488.375	488.328	488.083	487.575	487.213	486.987	488.619	MIN

WATER LEVELS IN METRES

MEAN, 487.791
MAXIMUM DAILY, 488.892 ON APR 24
MINIMUM DAILY, 486.619 ON DEC 31
MAXIMUM INSTANTANEOUS,
488.955 AT 09:49 CST ON APR 24

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 37 N
LONG 100 11 58 W

REGULATED

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05DC022

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.55 B	0.007	0	0.004	0	0	0	---	---	1
2	---	---	0 B	4.80 B	0.006	0	0.004	0	0	0	---	---	2
3	---	---	0 B	5.55 B	0.005	0	0.004	0	0	0	---	---	3
4	---	---	0.1008	5.89 B	0.007	0	0.004	0	0	0	---	---	4
5	---	---	0.7508	5.42 B	0.007	0	0.010	0	0	0	---	---	5
6	---	---	1.50 B	7.81 B	0.006	0.001	0.009	0	0	0	---	---	6
7	---	---	0.7508	7.95 B	0.005	0	0.008	0	0	0	---	---	7
8	---	---	0.3628	7.05 B	0.004	0	0.007	0	0	0	---	---	8
9	---	---	0.3158	6.33	0.003	0	0.008	0	0	0	---	---	9
10	---	---	0.2848	4.78	0.001	0	0.004	0	0	0	---	---	10
11	---	---	0.2738	3.10	0.001	0	0.003	0	0	0	---	---	11
12	---	---	0.2408	1.75	0.002	0	0.001	0	0	0	---	---	12
13	---	---	1.54 B	0.574	0.003	0	0.001	0	0	0	---	---	13
14	---	---	1.44 B	0.301	0.003	0	0.001	0	0	0	---	---	14
15	---	---	1.38 B	0.217	0.003	0	0	0	0	0	---	---	15
16	---	---	1.04 B	0.156	0.003	0	0	0	0	0	---	---	16
17	---	---	0.7488	0.115	0.003	0	0	0	0	0	---	---	17
18	---	---	0.5908	0.085	0.003	0	0	0	0	0	---	---	18
19	---	---	0.6708	0.038	0.002	0	0	0	0	0	---	---	19
20	---	---	0.4068	0.024	0.002	0	0 A	0	0	0	---	---	20
21	---	---	0.2838	0.018	0.002	0	0	0	0	0	---	---	21
22	---	---	0.2058	0.014	0.002	0.003	0	0	0	0	---	---	22
23	---	---	0.1628	0.010	0.001	0.008	0	0	0	0	---	---	23
24	---	---	0.1748	0.009	0.001	0.005	0	0	0	0	---	---	24
25	---	---	0.1858	0.008	0.001	0.005	0	0	0	0	---	---	25
26	---	---	0.1928	0.007	0.001	0.005	0	0	0	0	---	---	26
27	---	---	0.1878	0.003	0.001	0.005	0	0	0	0	---	---	27
28	---	---	0.1888	0.001	0.001	0.004	0	0	0	0	---	---	28
29	---		0.2478	0.004	0	0.005	0	0	0	0	---	---	29
30	---		0.5658	0.005	0	0.004	0	0	0	0	---	---	30
31	---		2.35 B		0		0	0		0		---	31
TOTAL	---	---	17.146	67.172	0.081	0.043	0.086	0	0	0	---	---	TOTAL
MEAN	---	---	0.553	2.24	0.003	0.001	0.002	0	0	0	---	---	MEAN
MAX	---	---	2.35	7.95	0.008	0.005	0.010	0	0	0	---	---	MAX
MIN	---	---	0	0.001	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.345
MAXIMUM DAILY, 7.958 ON APR 7
MINIMUM DAILY, 0E ON MAR 1
MAXIMUM INSTANTANEOUS,
8.238 AT 09:35 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 30 N
LONG 97 18 50 W
DRAINAGE AREA, 138 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	8.70
FEB	---	AUG	0
MAR	1 480	SEP	0
APR	5 800	OCT	0
MAY	7.85	NOV	---
JUN	3.72	DEC	---

TOTAL DISCHARGE, 7 300 dam³

ROARING RIVER NEAR MINITONAS - STATION NO. 05LE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1748	0.1958	5.37	4.55	2.35	1.84	0.268	0.211	---	---	1
2	---	---	0.1758	0.1728	5.46	4.07	4.92	1.61	0.246	0.285	---	---	2
3	---	---	0.1758	0.1698	5.59	4.02	15.4	1.32	0.225	0.306	---	---	3
4	---	---	0.1798	0.1748	5.26	4.74	17.8	1.21	0.183	0.318	---	---	4
5	---	---	0.1738	0.1868	5.51	4.80	14.3 A	1.13	0.196	0.338	---	---	5
6	---	---	0.1708	0.1978	5.07	4.24	12.1	1.03	0.249	0.399	---	---	6
7	---	---	0.1708	0.2238	4.71	3.72	9.17	0.926	0.234	0.355	---	---	7
8	---	---	0.1698	0.2568	4.56	3.43	7.17	0.844	0.233	0.345	---	---	8
9	---	---	0.1698	0.3198	4.45	3.80	5.94	0.787	0.304	0.367	---	---	9
10	---	---	0.1728	0.3378	14.4 E	3.60	5.22	0.773	0.372	0.432	---	---	10
11	---	---	0.1818	0.3488	10.0 E	3.20	6.21	0.712	0.326	0.447	---	---	11
12	---	---	0.1828	0.3268	7.21E	3.02	7.80	0.659	0.299	0.638	---	---	12
13	---	---	0.1798	0.2778	4.53E	10.1	8.71	0.868	0.263	0.874	---	---	13
14	---	---	0.1808	0.2548	5.14E	11.4	8.13	0.682	0.315	0.630	---	---	14
15	---	---	0.2098	0.2488	5.08E	8.82	6.31	0.822	0.290	0.787	---	---	15
16	---	---	0.2108	0.2888	5.70E	7.93	9.23	0.846	0.282	0.716	---	---	16
17	---	---	0.2118	0.3228	12.0 E	6.66	12.8	0.598	0.223	0.685	---	---	17
18	---	---	0.2098	0.2718	20.6 A	5.34	9.42	0.531	0.203	0.651	---	---	18
19	---	---	0.2068	0.4038	24.6	4.28	6.72	0.491	0.185	0.638	---	---	19
20	---	---	0.2028	0.5488	23.4	3.67	5.11	0.466	0.187	0.643	---	---	20
21	---	---	0.2008	0.8618	19.7	3.05	4.11	0.431	0.183	0.613	---	---	21
22	---	---	0.1938	1.20 B	15.2	2.84	3.31	0.387	0.155	0.611	---	---	22
23	---	---	0.1828	29.1 B	17.2	2.57	2.74	0.387	0.163	0.630	---	---	23
24	---	---	0.1798	52.1 B	14.8	2.76	2.32	0.380	0.139	0.615	---	---	24
25	---	---	0.1788	39.8 B	12.3	2.78	2.04	0.403	0.138	0.605	---	---	25
26	---	---	0.1738	22.7	8.95	3.20	2.03	0.359	0.172	0.591	---	---	26
27	---	---	0.1708	16.1	6.78	3.30	3.13	0.328	0.183	0.602	---	---	27
28	---	---	0.1698	11.2	7.50	3.00	1.88	0.311	0.181	0.608	---	---	28
29	---		0.1688	8.36	6.45	2.84	1.84	0.312	0.202	0.596	---	---	29
30	---		0.1688	7.24	5.49	2.41	1.51	0.305	0.208	0.573	---	---	30
31	---		0.2078		4.82		1.86	0.283		0.571		---	31
TOTAL	---	---	5.647	290.676	308.76	133.77	192.77	21.389	6.833	19.848	---	---	TOTAL
MEAN	---	---	0.183	9.69	9.99	4.46	6.22	0.689	0.228	0.643	---	---	MEAN
MAX	---	---	0.211	52.1	24.6	11.4	17.8	1.84	0.372	0.874	---	---	MAX
MIN	---	---	0.168	0.168	4.45	2.41	1.51	0.283	0.138	0.211	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.82
MAXIMUM DAILY, 52.1E ON APR 24
MINIMUM DAILY, 0.138 ON SEP 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 05 10 N
LONG 101 03 10 W
DRAINAGE AREA, 837 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	19 700
FEB	---	AUG	1 650
MAR	681	SEP	990
APR	17 300	OCT	1 650
MAY	28 500	NOV	---
JUN	11 900	DEC	---

TOTAL DISCHARGE, 78 800 dam³

ROCK LAKE NEAR GLENORA - STATION NO. 05UD004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	405.268	---	---	---	405.652	405.221	405.139	404.991	404.871	404.832E	404.844E	404.872E	1
2	405.268E	---	---	---	405.622	405.211	405.140	404.991	404.874E	404.832E	404.852	404.872	2
3	405.268	---	405.171	---	405.602	405.201	405.140	404.991	404.877E	404.832	404.852	404.872E	3
4	405.278	---	---	---	405.581	405.191	405.130	404.971	404.881	404.832E	404.852E	404.872E	4
5	405.278E	---	---	405.978	405.581	405.171	405.100	404.971	404.881E	404.832E	404.852	404.872E	5
6	405.278E	---	---	405.028	405.531	405.161	405.080	404.951	404.881	404.832	404.837E	404.872	6
7	405.278	---	---	---	405.500	405.151	405.080	404.951	404.870	404.832E	404.832	404.872E	7
8	405.274E	405.189	---	405.048	405.470	405.121	405.080	404.951	404.847	404.832	404.832E	404.872E	8
9	405.271E	---	---	405.068	405.459	405.111	405.080	404.941	404.822	404.832E	404.832	404.872	9
10	405.268E	---	---	405.088	405.439	405.101	405.080	404.941	404.822E	404.832	404.832E	404.872E	10
11	405.264E	405.154	---	405.098	405.419	405.111	405.080	404.931	404.822E	404.837E	404.822	404.874E	11
12	405.261	---	---	405.108	405.384	405.111	405.070	404.931	404.822E	404.842	404.818E	404.875E	12
13	405.263E	---	---	405.108	405.429	405.111	405.080	404.931	404.823	404.842E	404.819E	404.876E	13
14	405.265E	---	---	405.118	405.439	405.101	405.080	404.938E	404.837E	404.842	404.812	404.876E	14
15	405.268	---	---	---	405.409	405.091	405.080	404.941	404.852	404.842E	404.817E	404.879E	15
16	405.275E	---	---	---	405.389	405.071	405.080	404.931E	404.872E	404.842E	404.822	404.880E	16
17	405.282E	---	---	---	405.374	405.061	405.080	404.921	404.882	404.842	404.822	404.881E	17
18	405.290E	---	---	---	405.349	405.071	405.080	404.891	404.867E	404.842E	404.826E	404.882E	18
19	405.297	---	---	---	405.329	405.071	405.080	404.891E	404.842	404.843E	404.830E	404.884	19
20	405.298E	---	---	---	405.329	405.101	405.050	404.891	404.832E	404.842	404.836E	404.884E	20
21	405.302	---	---	405.822	405.319	405.121	405.040	404.888E	404.822	404.847E	404.838E	404.884E	21
22	405.297E	---	---	405.900	405.311E	405.141	405.040	404.888E	404.822E	404.852	404.843E	404.884	22
23	405.293E	---	---	405.870	405.302E	405.131	405.030	404.883E	404.822	404.847E	404.847E	404.884E	23
24	405.288	---	---	405.840	405.294E	405.141	405.030	404.881E	404.822E	404.862	404.851E	404.884E	24
25	405.278E	405.307	405.310	---	405.286	405.131	405.030	404.878E	404.822	404.847E	404.858E	404.884E	25
26	405.284	---	---	---	405.261	405.121	405.031	404.876E	404.827E	404.852	404.859E	404.884E	26
27	405.283E	---	---	---	405.251	405.111	405.021	404.873E	404.832	404.842E	404.865E	404.884	27
28	405.282E	---	---	405.788	405.241	405.100	405.021	404.871	404.832E	404.832E	404.867E	404.879E	28
29	405.281E		---	405.734	405.241	405.120	405.011	404.876E	404.832E	404.822	404.872	404.874	29
30	405.280E		---	405.693	405.231	405.110	405.011	404.881	404.833	404.829E	404.872E	404.874E	30
31	405.280E		---		405.221		405.001E	404.878E		404.837E		404.874	31
MEAN	405.275	---	---	---	405.384	405.126	405.082	404.918	404.868	404.841	404.839	404.873	MEAN
MAX	405.302	---	---	---	405.652	405.221	405.140	404.991	404.892	404.862	404.872	404.884	MAX
MIN	405.260	---	---	---	405.221	405.061	405.001	404.871	404.822	404.822	404.812	404.872	MIN

WATER LEVELS IN METRES

MINIMUM DAILY, 404.812 ON NOV 14

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 12 00 N
LONG 99 06 45 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.1038	0.0838	0.0878	0.2138	13.5	5.28	2.63	1.52	0.132	0.053	0.191	0.1188	1
2	0.1048	0.0848	0.0868	0.2148	11.6	5.08	2.58	1.61	0.078	0.050	0.187	0.1118	2
3	0.1008	0.0808	0.0868	0.2188	10.5	4.88	2.75	1.45	0.088	0.078	0.191	0.1178	3
4	0.0988	0.0808	0.0868	0.2238	9.49	4.78	2.70	1.32	0.072	0.105	0.187	0.1148	4
5	0.0928	0.0598	0.0988	0.2388	8.73	4.68	2.87	1.30	0.080	0.118	0.191	0.1068	5
6	0.0878	0.0878	0.1048	0.2988	8.02	4.72	2.85	1.07	0.088	0.101	0.190	0.0958	6
7	0.0838	0.0958	0.1098	0.1988	7.48	4.77	2.83	0.948	0.055	0.089	0.184	0.0918	7
8	0.0798	0.0908	0.1088	0.1898	6.94	4.78	2.58	0.880	0.080	0.108	0.193	0.0888	8
9	0.0758	0.0918	0.1088	0.2098	6.60	4.72	2.48	0.785	0.048	0.124	0.211	0.0818	9
10	0.0708	0.0578	0.1108	0.2588	6.30	4.63	2.52	0.718	0.044	0.119	0.182	0.0768	10
11	0.0668	0.0618	0.1118	0.3868	6.04	4.49	2.70	0.687	0.044	0.118	0.189	0.0708	11
12	0.0638	0.0638	0.1148	0.5548	5.82	4.37	3.23	0.598	0.045	0.121	0.149	0.0688	12
13	0.0578	0.0678	0.1188	0.6878	5.73	4.38	3.74	0.538	0.046	0.127	0.146	0.0698	13
14	0.0538	0.0728	0.1208	0.6858	5.54	4.30	3.93	0.505	0.048	0.159	0.164	0.0708	14
15	0.0498	0.0768	0.1318	0.3948	5.27	4.28	3.98	0.477	0.047	0.148	0.162	0.0718	15
16	0.0508	0.0618	0.1238	0.3118	5.13	4.18	3.97	0.430	0.048	0.145	0.161	0.0708	16
17	0.0528	0.0858	0.1268	0.2668	5.12	4.08	3.58	0.388	0.044	0.135	0.161	0.0678	17
18	0.0538	0.0918	0.1318	0.2568	5.24	3.95	3.53	0.333	0.040	0.131	0.142	0.0688	18
19	0.0588	0.0988	0.1368	0.2758	5.80	3.80	3.99	0.298	0.035	0.130	0.140	0.0628	19
20	0.0598	0.0978	0.1388	1.26 E	6.33	3.88	4.47	0.283	0.034	0.131	0.138	0.0598	20
21	0.0618	0.0898	0.1428	3.61 E	7.39	3.89	4.85	0.288	0.034	0.131	0.1328	0.0588	21
22	0.0688	0.1018	0.1468	5.32 E	8.89	3.97	4.81	0.235	0.033	0.133	0.1358	0.0598	22
23	0.0718	0.1018	0.1508	8.31 E	9.29	3.52	4.34	0.190	0.034	0.139	0.1338	0.0578	23
24	0.0738	0.0978	0.1718	14.0 E	9.03	3.46	3.89	0.135	0.034	0.144	0.1318	0.0558	24
25	0.0748	0.0888	0.1788	18.4	8.43	3.45	3.17	0.111	0.033	0.148	0.1278	0.0548	25
26	0.0708	0.0868	0.1838	20.4	7.88	3.34	2.83	0.084	0.034	0.155	0.1248	0.0538	26
27	0.0678	0.0888	0.1858	20.7	7.37	3.15	2.23	0.084	0.034	0.157	0.1218	0.0533	27
28	0.0688	0.0898	0.1858	20.8	6.82	2.96	1.84	0.103	0.035	0.168	0.1208	0.0508	28
29	0.0648		0.1858	21.2	6.54	2.82	1.75	0.118	0.0427	0.183	0.1188	0.0498	29
30	0.0648		0.1928	17.1	6.13	2.72	1.72	0.124	0.040	0.193	0.1188	0.0492	30
31	0.0638		0.2018		5.76		1.62	0.177		0.202		0.0488	31
TOTAL	2.192	2.158	4.181	173.082	238.72	122.47	88.20	17.079	1.681	4.087	4.811	2.384	TOTAL
MEAN	0.071	0.077	0.135	5.77	7.36	4.08	3.10	0.584	0.048	0.131	0.154	0.072	MEAN
MAX	0.105	0.101	0.201	20.7	13.5	5.36	4.85	1.53	0.133	0.202	0.211	0.117	MAX
MIN	0.049	0.050	0.085	0.180	5.12	2.72	1.62	0.084	0.033	0.053	0.118	0.048	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.61
MAXIMUM DAILY, 20.7 ON APR 27
MINIMUM DAILY, 0.033 ON SEP 22
MAXIMUM INSTANTANEOUS,
27.1 AT 11:45 CST ON APR 27

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 31 12 N
LONG 99 55 27 W
DRAINAGE AREA, 788 km²

E - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	189	JUL	8 210
FEB	166	AUG	1 610
MAR	361	SEP	125
APR	15 000	OCT	351
MAY	19 800	NOV	399
JUN	10 600	DEC	194

TOTAL DISCHARGE, 57 000 dam³

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	7.51B	32.8B	23.7	18.4	25.8	1.52	4.04	1.01	---	---	1
2	---	---	7.59B	33.4B	22.6	18.2	25.9	1.39	3.59	0.943	---	---	2
3	---	---	7.69B	34.7B	22.5	17.7	26.0	1.38	3.11	0.924	---	---	3
4	---	---	11.2 B	35.6B	23.6	17.1	25.9	1.30	2.52	0.921	---	---	4
5	---	---	22.7 B	39.2B	23.0	16.4	25.7	1.16	2.25	0.944	---	---	5
6	---	---	30.7 B	41.2B	22.3	15.4	25.4	1.12	1.97	0.993	---	---	6
7	---	---	30.4 B	41.7B	20.5	14.5	25.7	1.09	1.72	1.13	---	---	7
8	---	---	29.6 B	51.9	19.1	14.2	25.4	1.01	1.64	1.72	---	---	8
9	---	---	28.7 B	51.3	17.7	13.7	25.0	0.942	1.57	2.15	---	---	9
10	---	---	28.5 B	48.2	16.5	13.0	24.4	0.885	1.36	2.60	---	---	10
11	---	---	29.0 B	44.0	15.8	11.9	23.2	0.813	1.05	2.82	---	---	11
12	---	---	30.4 B	43.1	17.0	11.2	21.7	0.742	0.956	3.06	---	---	12
13	---	---	34.4 B	42.2	20.6	11.2	19.8	0.698	0.880	3.17	---	---	13
14	---	---	35.2 B	41.7	22.5	11.4	17.5	0.610	0.906	3.18	---	---	14
15	---	---	33.8 B	41.3	24.5	12.0	15.3	0.555	0.851	3.14	---	---	15
16	---	---	33.4 B	40.7	25.7	14.4	13.1	0.521	0.856	3.16	---	---	16
17	---	---	32.7 B	40.2	26.3	17.7	11.3	0.502	0.969	3.03	---	---	17
18	---	---	31.2 B	39.4	25.6	20.2	9.69	0.487	0.873	3.14	---	---	18
19	---	---	29.6 B	38.9	26.4	21.3	8.27	0.447	0.810	4.02	---	---	19
20	---	---	30.3 B	38.3	25.1	22.1	6.65	0.387	0.787	4.56	---	---	20
21	---	---	29.5 B	37.8	25.7	22.7	6.12	0.382	1.06	4.66	---	---	21
22	---	---	28.1 B	36.9	25.2	22.6	5.72	0.378	1.24	4.69	---	---	22
23	---	---	28.6 B	35.9	24.5	22.6	5.16	0.366	1.31	4.58	---	---	23
24	---	---	28.3 B	34.7	23.6	23.0	4.58	0.348	1.30	4.46	---	---	24
25	---	---	27.8 B	33.0	22.7	23.8	3.92	0.321	1.36	4.22	---	---	25
26	---	---	27.0 B	31.4	22.0	24.4	3.24	0.317	1.37	4.08	---	---	26
27	---	---	27.2 B	29.3	21.2	24.6	2.70	0.307	1.19	4.13	---	---	27
28	---	---	27.6 B	27.4	20.4	24.8	2.28	0.383	1.02	4.05	---	---	28
29	---		27.7 B	26.0	19.7	25.0	2.13	0.466	0.977	3.99	---	---	29
30	---		26.5 B	24.6	18.2	25.7	1.83	2.21	1.00	3.85	---	---	30
31	---		31.8 B		18.8		1.72	4.20		3.68		---	31
TOTAL	---	---	835.89	1 134.8	686.0	551.2	442.14	27.269	44.818	93.105	---	---	TOTAL
MEAN	---	---	27.0	37.8	22.1	18.4	14.3	0.880	1.49	3.00	---	---	MEAN
MAX	---	---	36.6	51.9	26.6	25.7	26.0	4.20	4.04	4.69	---	---	MAX
MIN	---	---	7.51	24.6	15.8	11.2	1.72	0.307	0.787	0.921	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.6
MAXIMUM DAILY, 51.9 ON APR 8
MINIMUM DAILY, 0.307 ON AUG 27
MAXIMUM INSTANTANEOUS,
56.8 AT 14:38 CST ON APR 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 18 N
LONG 96 41 15 W
DRAINAGE AREA, 4 430 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	38 200
FEB	---	AUG	2 360
MAR	72 200	SEP	3 880
APR	98 000	OCT	8 040
MAY	59 300	NOV	---
JUN	47 600	DEC	---

TOTAL DISCHARGE, 330 000 dam³

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.02 B	0.736B	0.821B	19.6B	20.4	18.8	25.5	1.27	3.43	1.19	2.94	3.66 B	1
2	0.991B	0.736B	0.850B	26.3B	19.7	18.4	25.2	1.27	3.06	1.19	3.06	3.40 B	2
3	0.991B	0.736B	0.878B	34.0B	20.6	15.8	25.1	1.27	2.61	1.19	2.80	3.11 B	3
4	0.963B	0.736B	0.906B	36.8B	21.2	15.1	25.0	1.18	2.12	1.22	2.52	2.83 B	4
5	0.963B	0.736B	0.991B	38.2B	20.7	14.3	25.1	1.16	1.87	1.36	2.35	2.55 B	5
6	0.934B	0.708B	1.42 B	38.0B	19.5	13.1	25.2	1.10	1.70	1.42	2.27	2.41 B	6
7	0.934B	0.708B	2.27 B	38.1B	18.2	12.2	25.1	1.08	1.53	1.81	2.07	2.27 B	7
8	0.906B	0.708B	4.25 B	38.4B	16.7	11.8	24.8	0.963	1.50	2.24	2.35	2.12 B	8
9	0.906B	0.680B	7.08 B	38.4	16.2	11.2	24.2	0.906	1.38	2.49	2.60	1.98 B	9
10	0.878B	0.680B	18.2 B	38.1	14.0	10.2	23.6	0.821	1.35	2.89	2.38	1.84 B	10
11	0.878B	0.680B	19.6 B	38.1	13.6	9.23	22.2	0.736	1.03	3.20	1.87	1.70 B	11
12	0.878B	0.708B	21.2 B	38.1	15.5	8.66	20.4	0.623	1.08	3.34	1.70E	1.56 B	12
13	0.878B	0.708B	22.7 B	36.5	16.6	8.46	18.3	0.595	0.963	3.40	1.56E	1.42 B	13
14	0.878B	0.708B	22.7 B	36.2	21.5	9.06	16.1	0.510	0.906	3.34	1.70E	1.33 B	14
15	0.878B	0.736B	22.7 B	36.2	24.2	10.0	13.8	0.481	0.991	3.26	1.98E	1.25 B	15
16	0.850B	0.736B	21.5 B	36.2	25.0	13.5	11.7	0.425	0.991	3.20	2.55E	1.19 B	16
17	0.850B	0.736B	20.7 B	36.2	25.3	17.1	9.66	0.425	0.906	3.20	3.11E	1.13 B	17
18	0.850B	0.736B	19.6 B	36.8	25.2	19.4	8.25	0.368	0.963	3.65	3.40E	1.08 B	18
19	0.850B	0.736B	18.4 B	36.0	24.9	20.4	6.91	0.368	0.906	4.42	3.40E	1.02 B	19
20	0.821B	0.736B	17.0 B	35.1	24.2	20.9	5.78	0.311	1.18	4.64	3.40E	0.991B	20
21	0.821B	0.736B	16.1 B	34.5	23.7	20.8	5.32	0.311	1.33	4.73	3.26E	0.934B	21
22	0.821B	0.736B	15.3 B	33.1	23.2	20.6	5.07	0.283	1.42	4.64	3.11E	0.906B	22
23	0.793B	0.736B	14.7 B	31.7	22.5	21.3	4.47	0.272	1.39	4.42	3.40E	0.850B	23
24	0.793B	0.736B	14.2 B	30.3	21.7	22.3	3.71	0.255	1.39	4.25	3.96E	0.821B	24
25	0.793B	0.765B	13.6 B	28.3	20.8	23.2	2.87	0.246	1.42	3.96	4.53B	0.793B	25
26	0.765B	0.765B	13.0 B	26.5	20.0	23.9	2.32	0.232	1.30	3.74	4.81B	0.736B	26
27	0.765B	0.793B	12.5 B	24.6	19.3	24.2	1.86	0.221	1.25	3.74	4.81B	0.708B	27
28	0.765B	0.793B	11.8 B	23.4	18.7	24.8	1.73	0.250	1.22	3.71	4.67B	0.680B	28
29	0.765B		11.2 B	22.3	18.2	24.8	1.50	1.33	1.19	3.48	4.53B	0.651B	29
30	0.765B		11.3 B	21.4	17.7	25.5	1.42	3.57	1.19	3.20	4.13B	0.623B	30
31	0.765B		16.2 B		17.3		1.36	3.74		3.03		0.595B	31
TOTAL	26.708	20.444	388.266	1 006.4	627.7	505.89	414.17	26.598	43.466	95.55	91.42	47.158	TOTAL
MEAN	0.862	0.730	12.5	33.5	20.2	16.9	13.4	0.858	1.45	3.08	3.05	1.52	MEAN
MAX	1.02	0.793	22.7	38.4	25.3	25.5	25.5	3.74	3.43	4.73	4.81	3.66	MAX
MIN	0.765	0.680	0.821	19.6	13.6	8.46	1.36	0.221	0.906	1.19	1.56	0.595	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.02
MAXIMUM DAILY, 38.4B ON APR 8
MINIMUM DAILY, 0.221 ON AUG 27
MAXIMUM INSTANTANEOUS,
38.5B ON APR 8

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 58 54 N
LONG 96 27 46 W
DRAINAGE AREA, 4 120 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 310	JUL	35 800
FEB	1 770	AUG	2 300
MAR	33 500	SEP	3 760
APR	87 000	OCT	8 260
MAY	54 200	NOV	7 900
JUN	43 700	DEC	4 070

TOTAL DISCHARGE, 285 000 dam³

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05DD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1982

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.52 B	0.6478	0.7138	35.2B	28.5	21.0	27.5	1.87	2.75	1.38	3.35	4.52 B	1
2	1.49 B	0.8388	0.7388	35.6B	27.1	20.3	27.8	1.71	2.80	1.57	3.24	4.11 B	2
3	1.37 B	0.6008	0.7478	32.7B	25.8	19.8	28.5	1.80	2.60	1.52	3.16	3.78 B	3
4	1.36 B	0.6808	0.8618	31.4B	25.7	19.0	28.3	1.81	2.35	1.43	3.25	3.58 B	4
5	1.39 B	0.6658	2.26 B	31.4B	26.2	18.1	28.5	1.48	2.09	1.79	3.09	3.32 B	5
6	1.39 B	0.5388	15.2 B	33.1B	25.8	17.2	28.3	1.34	2.01	1.80	2.81	2.98 B	6
7	1.31 B	0.4838	36.6 B	36.6B	24.5	15.9	28.0	1.24	1.79	1.80	2.86	2.73 B	7
8	1.27 B	0.4358	34.1 B	32.3B	22.9	14.8	27.4	1.15	1.64	0.849	2.81	2.49 B	8
9	1.33 B	0.4528	33.3 B	86.5	21.2	14.2	26.7	1.09	1.73	1.02	2.93	2.21 B	9
10	1.35 B	0.4818	31.5 B	75.2	19.6	13.5	25.9	1.03	1.80	1.64	2.718	1.97 B	10
11	1.29 B	0.4818	27.0 B	62.6	18.8	12.8	24.8	0.955	1.52	1.84	3.358	1.85 B	11
12	1.26 B	0.4848	32.6 B	57.3	18.5	11.6	23.4	0.884	1.43	2.07	3.428	1.86 B	12
13	1.32 B	0.5008	39.9 B	54.3	21.6	11.2	21.8	0.802	1.28	2.13	3.388	1.79 B	13
14	1.36 B	0.5008	41.1 B	51.8	25.7	11.0	19.3	0.722	1.20	2.20	1.828	1.89 B	14
15	1.35 B	0.6058	37.9 B	51.0	27.6	11.7	16.7	0.648	1.32	2.21	1.488	1.54 B	15
16	1.31 B	0.7788	35.8 B	50.1	29.0	12.5	14.3	0.571	1.28	2.17	1.688	1.38 B	16
17	1.28 B	0.7678	34.5 B	49.2	29.8	15.4	12.0	0.577	1.30	2.13	1.558	1.19 B	17
18	1.22 B	0.7688	32.9 B	46.2	30.5	19.2	10.1	0.550	1.36	2.34	2.328	1.03 B	18
19	1.21 B	0.7458	30.9 B	47.4	30.5	21.4	8.78	0.488	1.29	2.84	2.978	0.8178	19
20	1.30 B	0.7248	29.3 B	46.4	29.9	22.8	7.36	0.487	1.24	3.40	3.188	0.8488	20
21	1.31 B	0.7208	28.0 B	45.2	29.4	23.7	6.01	0.488	1.26	3.81	3.458	0.8788	21
22	1.27 B	0.7318	27.8 B	44.5	28.6	24.0	5.26	0.587	1.34	3.94	3.438	0.8598	22
23	1.21 B	0.7218	26.3 B	43.1	28.1	24.7	4.80	0.714	1.60	4.03	3.068	1.03 B	23
24	1.15 B	0.7028	26.1 B	41.6	27.4	24.6	4.36	0.857	1.71	4.15	2.078	1.09 B	24
25	1.05 B	0.7028	26.2 B	40.0	26.3	25.4	3.88	1.12	1.75	4.01	2.008	1.14 B	25
26	0.9028	0.7018	25.7 B	38.1	25.3	26.0	3.38	0.863	1.62	3.81	3.468	1.12 B	26
27	0.7988	0.6888	25.0 B	36.0	24.3	26.5	3.03	0.844	1.80	3.86	3.378	1.22 B	27
28	0.8378	0.6858	24.5 B	33.6	23.5	26.6	2.75	1.06	1.88	3.57	4.708	1.24 B	28
29	0.8198		25.5 B	31.7	22.8	26.6	2.42	1.01	1.89	3.54	4.878	1.08 B	29
30	0.8278		26.5 B	30.4	22.3	27.2	2.34	0.977	1.48	3.55	4.678	0.9858	30
31	0.8708		29.5 B		21.8		2.32	0.988		3.48		1.01 B	31
TOTAL	37.983	18.111	782.320	1 362.8	789.4	578.4	475.77	30.162	51.09	78.849	88.53	57.558	TOTAL
MEAN	1.22	0.647	25.8	45.4	25.5	19.3	15.3	0.973	1.70	2.57	2.85	1.88	MEAN
MAX	1.52	0.847	41.1	86.5	30.5	27.2	28.5	1.87	2.80	4.15	4.87	4.52	MAX
MIN	0.788	0.435	0.713	30.4	18.5	11.0	2.32	0.488	1.20	0.849	1.48	0.848	MIN

SUMMARY FOR THE YEAR 1982

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.0
MAXIMUM DAILY, 86.5 ON APR 5
MINIMUM DAILY, 0.4358 ON FEB 8
MAXIMUM INSTANTANEOUS,
86.9 AT 00:01 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 11 53 N
LONG 97 02 15 W
DRAINAGE AREA, 5 130 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	3 280	JUL	41 100
FEB	1 560	AUG	2 610
MAR	69 500	SEP	4 410
APR	118 000	OCT	6 880
MAY	68 200	NOV	7 660
JUN	50 100	DEC	4 970

TOTAL DISCHARGE, 377 000 dam³

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.26 B	0.247	0.095	0.047	0	0	0	---	---	1
2	---	---	0 B	0.9728	0.203	0.091	0.048	0.002	0	0	---	---	2
3	---	---	0 B	1.68 B	0.181	0.088	0.054	0.001	0	0	---	---	3
4	---	---	0 B	1.44 B	0.163	0.087	0.046	0	0	0	---	---	4
5	---	---	0.0028	2.19 B	0.149	0.083	0.038	0	0	0	---	---	5
6	---	---	0.0128	5.13 B	0.134	0.077	0.031	0	0	0	---	---	6
7	---	---	0.0098	7.47 B	0.121	0.073	0.022	0	0	0	---	---	7
8	---	---	0.0088	8.93 B	0.113	0.071	0.019	0	0	0	---	---	8
9	---	---	0.0038	7.80 B	0.105	0.067	0.017	0	0	0	---	---	9
10	---	---	0.0438	5.02 B	0.103	0.059	0.016	0	0	0	---	---	10
11	---	---	0.0878	5.01 B	0.108	0.062	0.012	0	0	0	---	---	11
12	---	---	0.1308	3.86 B	0.145	0.056	0.009	0	0	0	---	---	12
13	---	---	0.1738	2.15 B	0.296	0.058	0.008	0	0	0	---	---	13
14	---	---	0.1268	1.70 B	0.286	0.058	0.007	0	0	0	---	---	14
15	---	---	0.0808	1.42 B	0.248	0.060	0.007	0	0	0	---	---	15
16	---	---	0.0148	1.19 B	0.205	0.061	0.007	0	0	0	---	---	16
17	---	---	0.0048	1.03 B	0.174	0.048	0.007	0	0	0	---	---	17
18	---	---	0.0048	0.8878	0.155	0.040	0.007	0	0	0	---	---	18
19	---	---	0.0038	1.04	0.152	0.039	0.007	0	0	0	---	---	19
20	---	---	0.0038	1.73	0.157	0.047	0.007	0	0	0	---	---	20
21	---	---	0.0028	1.42	0.152	0.055	0.006	0	0	0	---	---	21
22	---	---	0.0028	1.07	0.145	0.090	0.006	0	0	0	---	---	22
23	---	---	0.0028	0.817	0.138	0.109	0.005	0	0	0	---	---	23
24	---	---	0.0018	0.681	0.133	0.078	0.005	0	0	0	---	---	24
25	---	---	0.0018	0.593	0.126	0.069	0.003	0	0	0	---	---	25
26	---	---	0.0028	0.518	0.123	0.055	0.002	0	0	0	---	---	26
27	---	---	0.0588	0.447	0.118	0.038	0.001	0	0	0	---	---	27
28	---	---	0.1788	0.383	0.113	0.033	0	0	0	0	---	---	28
29	---		0.3368	0.373	0.102	0.035	0	0	0	0	---	---	29
30	---		1.24 B	0.303	0.102	0.046	0.001	0	0	0	---	---	30
31	---		7.49 B		0.102		0.001	0		0		---	31
TOTAL	---	---	9.989	71.104	4.787	1.924	0.445	0.003	0	0	---	---	TOTAL
MEAN	---	---	0.322	2.37	0.155	0.064	0.014	0	0	0	---	---	MEAN
MAX	---	---	7.49	8.93	0.296	0.109	0.054	0.002	0	0	---	---	MAX
MIN	---	---	0	0.303	0.102	0.033	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.380
MAXIMUM DAILY, 8.938 ON APR 6
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
11.7B AT 22:14 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 30 10 N
LONG 98 15 40 W
DRAINAGE AREA, 312 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	38.4
FEB	---	AUG	0.26
MAR	883	SEP	0
APR	6 100	OCT	0
MAY	414	NOV	---
JUN	186	DEC	---

TOTAL DISCHARGE, 7 830 dam³

ROUND LAKE AT OUTLET - STATION NO. 05RD011

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.924	---	---	0.750	---	---	1.692	1.725	1.635	1.197	0.872	0.898	1
2	0.925	---	---	0.747	---	---	1.695	1.748	1.607	1.185	0.860	0.889	2
3	0.926	---	---	0.743	---	---	1.692	1.782	1.587	1.172	0.848	0.879	3
4	0.926	---	---	0.740	---	---	1.686	1.808	1.560	1.161	0.837	0.875	4
5	0.926	---	---	0.738	---	---	1.673	1.830	1.540	1.153	0.835	0.875	5
6	0.926	---	---	0.737	---	---	1.658	1.840	1.544	1.143	0.826	0.867	6
7	0.925	---	---	0.738	---	---	1.643	1.854	1.535	1.128	0.805	0.862	7
8	0.925	---	---	0.741	---	---	1.628	1.861	1.524	1.111	0.800	0.862	8
9	0.925	---	---	0.759	---	---	1.609	1.871	1.503	1.097	0.790	0.854	9
10	0.924	---	---	0.784	---	---	1.605	1.883	1.495	1.089	0.783	0.843	10
11	0.925	---	---	0.801	---	---	1.626	1.878	1.495	1.088	0.774	0.843	11
12	0.929A	---	---	0.804A	---	---	1.605	1.888	1.480	1.078	0.765	0.845	12
13	---	---	---	---	---	---	1.763	1.880	1.464	1.080	0.760	0.845	13
14	---	---	---	---	---	---	1.758	1.879	1.449	1.049	0.755	0.846	14
15	---	---	---	---	---	1.329A	1.751	1.861	1.434	1.037	0.747	0.844	15
16	---	---	---	---	---	1.323	1.736	1.844	1.424	1.029	0.733	0.842	16
17	---	---	---	---	---	1.330	1.719	1.839	1.407	1.021	0.723	0.837	17
18	---	---	---	---	---	1.337	1.709	1.837	1.405	1.007	0.721	0.836	18
19	---	---	---	---	---	1.338	1.700	1.827	1.398	0.993	0.721	0.838	19
20	---	---	---	---	---	1.382	1.698	1.781	1.380	0.984	0.718	0.835	20
21	---	---	---	---	---	1.485	1.692	1.749	1.358	0.977	0.718	0.834	21
22	---	---	---	---	---	1.606	1.686	1.736	1.336	0.985	0.717	0.834	22
23	---	---	0.764A	---	---	1.710	1.683	1.731	1.321	0.953	0.718	0.833	23
24	---	---	0.759	---	---	1.706	1.680	1.730	1.300	0.947	0.714	0.833	24
25	---	---	0.758	---	---	1.727	1.678	1.741	1.279	0.935	0.712	0.833	25
26	---	---	0.758	---	---	1.643	1.682	1.750	1.262	0.923	0.713	0.852	26
27	---	---	0.757	---	---	1.693	1.682	1.738	1.242	0.915	0.712	0.857	27
28	---	---	0.756	---	---	1.689	1.677	1.738	1.233	0.904	0.706	0.857	28
29	---		0.753	---	---	1.679	1.674	1.707	1.217	0.893	0.702	0.858	29
30	---		0.752	---	---	1.672	1.664	1.685	1.202	0.885	0.700	0.858	30
31	---		0.750		---		1.702	1.669		0.878		0.859	31
MEAN	---	---	---	---	---	---	1.701	1.797	1.421	1.031	0.788	0.852	MEAN
MAX	---	---	---	---	---	---	1.895	1.890	1.635	1.197	0.872	0.898	MAX
MIN	---	---	---	---	---	---	1.674	1.669	1.202	0.878	0.700	0.833	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 40 N
LONG 96 23 20 W

A - MANUAL GAUGE

MAXIMUM DAILY, 1.895 ON JUL 2

MAXIMUM INSTANTANEOUS,
1.898 AT 17:42 CST ON JUN 27

NATURAL FLOW

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

RUSSELL LAKE NEAR MERRIOT - STATION NO. 05ED006

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	---	324.327	324.692	324.713	---	1
2	---	---	---	---	---	---	---	---	324.322	324.677	324.715	---	2
3	---	---	---	---	---	---	---	---	324.358	324.681	324.718	---	3
4	---	---	---	---	---	---	---	---	324.372	324.692	324.716	---	4
5	---	---	---	---	---	---	---	---	324.372	324.705	324.730	---	5
6	---	---	---	---	---	---	---	---	324.378	324.695	324.722	---	6
7	---	---	---	---	---	---	---	---	324.382	324.700	324.711	---	7
8	---	---	---	---	---	---	---	---	324.441	324.701	324.710	---	8
9	---	---	---	---	---	---	---	---	324.434	324.709	324.705	---	9
10	---	---	---	---	---	---	---	---	324.432	324.704	324.702	---	10
11	---	---	---	---	---	---	---	---	324.450	324.706	324.698	---	11
12	---	---	---	---	---	---	---	---	324.454	324.714	324.697	---	12
13	---	---	---	---	---	---	---	---	324.456	324.710	324.695	---	13
14	---	---	---	---	---	---	---	---	324.459	324.707	324.693	---	14
15	---	---	---	---	---	---	---	---	324.481	324.714	324.698	---	15
16	---	---	---	---	---	---	---	---	324.462	324.722	324.694	---	16
17	---	---	---	---	---	---	---	---	324.486	324.713	324.692	---	17
18	---	---	---	---	---	---	---	---	324.505	324.713	324.691	---	18
19	---	---	---	---	---	---	---	---	324.542	324.717	324.688	---	19
20	---	---	---	---	---	---	---	---	324.585	324.714	324.680	---	20
21	---	---	---	---	---	---	---	---	324.578	324.712	324.674	---	21
22	---	---	---	---	---	---	---	---	324.608	324.712	324.678	---	22
23	---	---	---	---	---	---	---	---	324.626	324.726	324.673	---	23
24	---	---	---	---	---	---	---	324.330A	324.644	324.725	324.671	---	24
25	---	---	---	---	---	---	---	324.309	324.648	324.717	324.669	---	25
26	---	---	---	---	---	---	---	324.309	324.655	324.723	324.671	---	26
27	---	---	---	---	---	323.698A	---	324.308	324.654	324.720	---	---	27
28	---	---	---	---	---	---	---	324.310	324.680	324.722	---	---	28
29	---		---	---	---	---	---	324.312	324.688	324.722	---	---	29
30	---		---	---	---	---	---	324.314	324.692	324.718	---	---	30
31	---		---		---		---	324.321		324.717		---	31
MEAN	---	---	---	---	---	---	---	---	324.504	324.710	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	324.692	324.736	---	---	MAX
MIN	---	---	---	---	---	---	---	---	324.322	324.677	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 20 24 N
LONG 101 21 48 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. HYDRO EXT.)

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	233	1 270	1 290	710	194	113	102	93.5	648	243	412	682	1
2	242	1 300	1 250	1 130	479	279	103	190	857	462	377	608	2
3	238	1 280	1 280	987	854	349	103	110	205	758	830	863	3
4	462	1 290	1 200	1 160	513	107	94.9	490	92.8	711	809	1 090	4
5	726	1 280	1 070	1 120	385	108	140	494	93.3	891	132	1 080	5
6	771	1 270	1 140	1 170	455	418	167	114	91.2	734	104	1 080	6
7	685	1 310	1 050	1 010	96.8	244	435	97.3	78 6	422	505	1 080	7
8	294	1 310	1 200	825	96.8	531	420	445	107	244	305	1 080	8
9	103	1 340	1 230	788	411	563	100	334	94.2	305	809	1 080	9
10	840	1 340	1 300	888	455	875	584	382	91.6	397	808	1 080	10
11	887	1 310	1 210	915	450	328	277	420	92.4	739	164	1 100	11
12	858	1 320	801	905	553	82.6	390	242	98.3	812	563	1 090	12
13	885	801	183	901	430	471	493	103	111	820	256	1 090	13
14	870	896	972	821	177	475	110	142	84.2	781	874	1 050	14
15	124	930	1 260	832	102	418	111	804	186	583	892	1 090	15
16	118	888	1 280	754	437	428	84 5	485	427	788	514	1 010	16
17	820	885	1 300	806	334	391	85.7	575	418	1 080	619	1 080	17
18	854	1 070	1 280	898	328	212	92.7	598	272	1 080	398	1 090	18
19	809	1 280	1 270	878	393	83.3	84.7	450	734	1 080	204	1 090	19
20	737	1 230	1 280	808	375	512	117	87.7	748	1 080	148	1 090	20
21	403	1 280	1 300	295	134	854	98.0	92.5	852	1 000	753	1 090	21
22	144	1 280	1 280	331	102	597	88.8	247	449	687	892	1 090	22
23	217	1 260	1 280	187	180	832	84.0	120	488	131	754	1 080	23
24	828	1 300	1 090	125	481	509	113	570	109	486	107	1 090	24
25	780	1 250	1 200	468	349	524	115	894	97.6	283	467	1 100	25
26	935	1 280	1 220	433	428	103	107	630	844	110	235	1 100	26
27	1 130	1 320	1 220	513	248	340	103	549	872	500	573	1 100	27
28	513	1 320	1 230	562	86.4	153	103	330	471	510	852	1 100	28
29	838		801	447	70.1	342	123	853	239	185	810	1 090	29
30	891		484	172	83.2	416	84.0	587	777	88.1	530	1 100	30
31	1 010		801		86.3		98.2	857		458		1 090	31
TOTAL	18 049	33 200	34 423	20 870	9 587.6	10 933.9	5 331.5	11 588.0	10 332.3	18 318.1	14 286	32 833	TOTAL
MEAN	584	1 180	1 110	696	309	364	172	374	344	591	480	1 060	MEAN
MAX	1 130	1 340	1 300	1 180	854	875	584	894	777	1 080	914	1 100	MAX
MIN	103	588	183	125	70.1	82.6	84.0	87.7	79 6	88.1	104	808	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 802
MAXIMUM DAILY, 1 340 ON FEB 9
MINIMUM DAILY, 82.5 ON JUN 12

DATA CONTRIBUTED BY -
MANITOBA HYDRO

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 53 09 50 N
LONG 99 20 56 W
DRAINAGE AREA, 383 000 km²

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 580 000	JUL	481 000
FEB	2 870 000	AUG	1 000 000
MAR	2 970 000	SEP	893 000
APR	1 800 000	OCT	1 580 000
MAY	828 000	NOV	1 240 000
JUN	945 000	DEC	2 820 000

TOTAL DISCHARGE, 18 000 000 dam³

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5168	5218	5368	3508	1 440E	695	566	688	359	415	413	3188	1
2	5268	5038	5448	3748	1 550E	703	535	645	386	419	422	3078	2
3	5238	4838	5508	4028	1 240E	728	588	627	377	431	448	2968	3
4	5198	4958	5548	4058	1 280E	757	598	624	361	449	438	2858	4
5	5178	5048	5558	3858	1 210E	706	611	535	383	442	436	2758	5
6	5278	5158	5598	3898	1 160A	681	600	652	401	438	412	2858	6
7	5438	5128	5628	3828	1 110	635	641	675	401	445	462	2618	7
8	5618	4938	5608	3588	1 080	644	702	672	384	438	494	2508	8
9	5738	4778	5508	3798	1 040	676	725	645	348	427	473	2618	9
10	5858	4708	5408	3978	1 030	683	735	588	376	414	483	2508	10
11	6088	4738	5378	4088	1 070	698	758	588	383	433	486	2508	11
12	6008	4768	5388	4028	1 020A	702	788	571	378	448	428	2578	12
13	5908	4828	5258	3808	982E	699	750	534	363	454	414	2538	13
14	5908	4808	4988	4018	1 020E	683	734	515	371	448	418	2498	14
15	5928	4718	4658	4338	988E	677	784	489	395	488	4188	2468	15
16	5978	4708	4398	4568	970E	711	833	483	419	483	4158	2548	16
17	6058	4858	4318	4658	950E	708	854	450	440	439	4148	2648	17
18	6058	5118	4348	4848	947E	708	842	432	491	453	4148	2708	18
19	5978	5328	4348	4718	942E	718	888	403	383	457	4138	2788	19
20	6088	5418	4288	4808	921E	884	903	391	414	439	4128	2848	20
21	6348	5328	4158	5008	928E	848	813	393	440	430	4088	2898	21
22	6858	5048	3988	5318	958F	835	810	373	441	430	4048	2868	22
23	6918	4788	3888	5828	928E	885	905	374	424	432	4008	3018	23
24	6848	4728	3938	6478	884E	851	884	383	397	424	3988	2898	24
25	6888	4838	3988	7178	828E	841	887	371	410	414	3928	2868	25
26	6978	5178	3848	7978	803A	854	850	381	417	411	3798	2858	26
27	6108	5328	3788	8088	837	848	872	359	431	433	3678	2948	27
28	6188	5388	3608	8788	848	878	828	384	416	422	3558	2898	28
29	6288		3488	1 010E	819	880	810	389	417	415	3428	2758	29
30	6388		3418	1 210E	774	880	782	378	408	414	3308	2638	30
31	6388		3428		738		738	378		412		2618	31
TOTAL	12 931	13 870	14 387	16 048	31 423	20 118	23 888	15 362	11 885	13 509	12 445	8 645	TOTAL
MEAN	417	488	484	535	1 010	671	771	496	397	436	415	278	MEAN
MAX	536	541	582	1 210	1 580	757	813	686	441	488	494	314	MAX
MIN	316	470	341	380	738	880	886	359	341	411	330	248	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 633
MAXIMUM DAILY, 1 550E ON MAY 2
MINIMUM DAILY, 2468 ON DEC 15
MAXIMUM INSTANTANEOUS,
1 570 AT 17:35 CST ON MAY 2

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 50 30 N
LONG 101 11 10 W
DRAINAGE AREA, 347 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 120 000	JUL	2 060 000
FEB	1 210 000	AUG	1 330 000
MAR	1 240 000	SEP	1 030 000
APR	1 380 000	OCT	1 170 000
MAY	2 710 000	NOV	1 080 000
JUN	1 740 000	DEC	740 000

TOTAL DISCHARGE, 15 800 000 dam³

SEMIST LAKE NEAR CHANNING - STATION NO. 05KG004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	291.929	292.039	292.145	292.135	291.983	292.041	---	---	1
2	---	---	---	---	291.935	292.040	292.144	292.132	291.980	292.032	---	---	2
3	---	---	---	---	291.946	292.033	292.137	292.133	291.988	292.024	---	---	3
4	---	---	---	---	291.952	292.033	292.130	292.124	291.989	292.018	---	---	4
5	---	---	---	---	291.955	292.026	292.129	292.117	292.000	292.007	---	---	5
6	---	---	---	---	291.959	292.027	292.124	292.114	292.005	292.000	---	---	6
7	---	---	---	---	291.961	292.031	292.113	292.114	292.007	291.995	---	---	7
8	---	---	---	---	291.964	292.030	292.112	292.108	291.995	291.987	---	---	8
9	---	---	---	---	291.962	292.033	292.106	292.106	291.994	291.979	---	---	9
10	---	---	---	---	291.972	292.033	292.098	292.099	292.010	291.985	---	---	10
11	---	---	---	---	291.976	292.031	292.091	292.098	292.021	291.985	---	---	11
12	---	---	---	---	291.983	292.026	292.089	292.087	292.022	291.985	---	---	12
13	---	---	---	---	291.982	292.056	292.087	292.079	292.025	291.956	---	---	13
14	---	---	---	---	291.986	292.064	292.085	292.073	292.021	291.949	---	---	14
15	---	---	---	---	291.987	292.062	292.103	292.059	292.021	291.947	---	---	15
16	---	---	291.815A	---	291.990	292.095	292.118	292.058	292.018	291.934	---	---	16
17	---	---	---	---	291.993	292.103	292.130	292.049	292.027	291.925	---	---	17
18	---	---	---	291.812A	292.000	292.111	292.134	292.045	292.037	291.924	---	---	18
19	---	---	---	291.807	292.004	292.116	292.143	292.038	292.046	291.919	---	---	19
20	---	---	---	291.809	292.013	292.114	292.148	292.042	292.055	291.913	---	---	20
21	---	---	---	291.813	292.012	292.113	292.155	292.030	292.058	291.904	---	---	21
22	---	---	---	291.817	292.013	292.108	292.151	292.027	292.066	291.901	---	---	22
23	---	---	---	291.825	292.015	292.108	292.156	292.023	292.071	291.895	---	---	23
24	---	---	---	291.833	292.018	292.107	292.157	292.021	292.071	291.891	---	---	24
25	---	---	---	291.851	292.025	292.118	292.160	292.025	292.074	291.887	---	---	25
26	---	---	---	291.884	292.031	292.138	292.156	292.019	292.073	291.883	---	---	26
27	---	---	---	291.901	292.028	292.143	292.148	292.013	292.066	291.872	---	---	27
28	---	---	---	291.915	292.022	292.143	292.138	292.006	292.058	291.869	---	---	28
29	---		---	291.922	292.027	292.142	292.138	292.002	292.056	291.865	---	---	29
30	---		---	291.926	292.029	292.144	292.138	291.998	292.050	291.860	---	---	30
31	---		---		292.034		292.133	291.991		291.855A		---	31
MEAN	---	---	---	---	291.980	292.080	292.129	292.083	292.030	291.940	---	---	MEAN
MAX	---	---	---	---	292.034	292.144	292.160	292.135	292.074	292.041	---	---	MAX
MIN	---	---	---	---	291.929	292.026	292.085	291.991	291.980	291.855	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

A - MANUAL GAUGE

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 45 20 N
LONG 101 49 30 W

MAXIMUM DAILY, 292.160 ON JUL 25

MAXIMUM INSTANTANEOUS,
292.188 AT 15:03 CST ON JUL 25

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0.0028	0.007	0	---	---	---	---	---	---	1
2	---	---	0B	0.0068	0.003	0	---	---	---	---	---	---	2
3	---	---	0B	0.0098	0.001	0	---	---	---	---	---	---	3
4	---	---	0B	0.0138	0.001	0	---	---	---	---	---	---	4
5	---	---	0B	0.0248	0.001	0	---	---	---	---	---	---	5
6	---	---	0B	0.0208	0	0	---	---	---	---	---	---	6
7	---	---	0B	0.0318	0	0	---	---	---	---	---	---	7
8	---	---	0B	0.0578	0	0	---	---	---	---	---	---	8
9	---	---	0B	0.1818	0	0	---	---	---	---	---	---	9
10	---	---	0B	0.2808	0	0	---	---	---	---	---	---	10
11	---	---	0B	0.5378	0	0	---	---	---	---	---	---	11
12	---	---	0B	0.4788	0	0	---	---	---	---	---	---	12
13	---	---	0B	0.4198	0.002	0	---	---	---	---	---	---	13
14	---	---	0B	0.3958	0.003	0	---	---	---	---	---	---	14
15	---	---	0B	0.3398	0.001	0	---	---	---	---	---	---	15
16	---	---	0B	0.3678	0.003	0	---	---	---	---	---	---	16
17	---	---	0B	0.2908	0.004	0	---	---	---	---	---	---	17
18	---	---	0B	0.649	0.004	0	---	---	---	---	---	---	18
19	---	---	0B	3.19	0.003	0	---	---	---	---	---	---	19
20	---	---	0B	8.89	0.002	0	---	---	---	---	---	---	20
21	---	---	0B	8.04	0.002	0	---	---	---	---	---	---	21
22	---	---	0B	5.47	0.002	0	---	---	---	---	---	---	22
23	---	---	0B	3.78	0.002	0	---	---	---	---	---	---	23
24	---	---	0B	1.75	0.001	0	---	---	---	---	---	---	24
25	---	---	0B	0.843	0	0	---	---	---	---	---	---	25
26	---	---	0B	0.436	0	0	---	---	---	---	---	---	26
27	---	---	0B	0.241	0	0	---	---	---	---	---	---	27
28	---	---	0B	0.172	0	0	---	---	---	---	---	---	28
29	---		0B	0.110	0	0	---	---	---	---	---	---	29
30	---		0B	0.038	0	0	---	---	---	---	---	---	30
31	---		0B		0		---	---		---		---	31
TOTAL	---	---	0	37.868	0.042	0	---	---	---	---	---	---	TOTAL
MEAN	---	---	0	1.26	0.001	0	---	---	---	---	---	---	MEAN
MAX	---	---	0	8.04	0.007	0	---	---	---	---	---	---	MAX
MIN	---	---	0	0.003	0	0	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.311
MAXIMUM DAILY, 8.04 ON APR 21
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
10.5 AT 22:11 CST ON APR 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 16 16 N
LONG 101 23 04 W
DRAINAGE AREA, 162 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	0	SEP	---
APR	3 270	OCT	---
MAY	3.63	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 3 270 dam³

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 05CD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1620	1380	1190	102 B	90.88	7890	1 610	955	723	1 080	846	4490	1
2	1610	1370	1190	101 B	90.88	8470	1 600	952	713	1 070	8170	4400	2
3	1600	1360	1180	100 B	90.88	1 1000	1 580	950	733	1 080	8120	4310	3
4	1600	1350	1170	99.88	90.88	1 2800	1 550	957	784	1 050	8080	4220	4
5	1590	1350	1170	99.28	90.88	1 3800	1 530	955	790	1 050	7890	4150	5
6	1580	1340	1160	98.68	90.88	1 4400	1 510	938	782	1 050	7840	4070	6
7	1570	1340	1150	98.08	90.88	1 4500	1 480	910	775	1 040	7730	4040	7
8	1560	1330	1150	98.08	90.88	1 4500	1 460	883	781	1 030	7580	3930	8
9	1550	1320	1140	97.48	90.88	1 4400	1 440	865	794	1 020	7450	3850	9
10	1540	1310	1130	96.88	90.88	1 4100	1 410	844	811	1 010	7340	3780	10
11	1530	1310	1130	96.88	91.48	1 3900	1 390	830	818	1 000	7170	3740	11
12	1530	1300	1120	96.28	91.48	1 3200	1 350	814	835	992	7000	3660	12
13	1520	1300	1120	95.68	91.48	1 280	1 330	797	846	985	6890	3590	13
14	1490	1290	1110	95.08	91.48	1 270	1 310	784	869	971	6670	3560	14
15	1490	1280	1100	94.58	92.08	1 300	1 280	780	894	958	6560	3480	15
16	1480	1270	1100	93.88	92.08	1 330	1 240	741	907	958	6340	3440	16
17	1480	1270	1100	93.28	92.68	1 370	1 230	732	921	989	6220	3370	17
18	1480	1260	1090	93.28	93.28	1 380	1 230	713	935	941	6010	3330	18
19	1470	1250	1080	92.68	94.48	1 400	1 220	726	900	924	5850	3300	19
20	1470	1240	1080	92.68	95.68	1 430	1 200	722	1 070	929	5750	3230	20
21	1480	1240	1070	92.08	96.88	1 470	1 170	726	1 090	922	5610	3190	21
22	1480	1240	1070	92.08	96.88	1 520	1 150	733	1 090	909	5520	3180	22
23	1440	1230	1060	92.08	96.08	1 560	1 120	740	1 100	904	5390	3120	23
24	1430	1230	1050	91.48	102 B	1 590	1 090	748	1 090	912	5250	3090	24
25	1420	1220	1050	90.88	111 B	1 610	1 070	744	1 090	911	5160	3020	25
26	1420	1220	1040	90.28	166 B	1 610	1 050	744	1 090	894	5030	2980	26
27	1420	1210	1030	90.28	218 B	1 630	1 030	739	1 080	894	4940	2940	27
28	1410	1200	1030	90.28	284 B	1 640	1 010	736	1 080	880	4800	2930	28
29	1390		1020	90.88	385 B	1 640	1 010	731	1 090	876	4720	2910	29
30	1390		1020	90.88	507 B	1 630	997	724	1 090	872	4630	2880	30
31	1380		1020		622 B		974	718		863		2840	31
TOTAL	44 636	3 801	3 412	2 844.7	4 520.0	42 058	39 621	24 945	27 841	28 935	18 413	10 899	TOTAL
MEAN	150	128	110	94.8	146	1 400	1 280	805	921	966	647	352	MEAN
MAX	162	138	119	102	622	1 640	1 610	957	1 100	1 080	846	449	MAX
MIN	136	120	102	90.2	90.8	789	974	713	713	863	463	284	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 585
MAXIMUM DAILY, 1 640 ON JUN 28
MINIMUM DAILY, 90.28 ON APR 26
MAXIMUM INSTANTANEOUS,
1 650 AT 13:15 CST ON JUN 28

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 53 30 N
LONG 96 15 31 W
DRAINAGE AREA, 48 200 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	401 000	JUL	3 420 000
FEB	311 000	AUG	2 150 000
MAR	295 000	SEP	2 390 000
APR	246 000	OCT	2 590 000
MAY	391 000	NOV	1 580 000
JUN	3 630 000	DEC	842 000

TOTAL DISCHARGE, 18 500 000 dam³

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05DE011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	30.1 B	2.87	1.34	0.773	0.151	0.034	0.078	---	---	1
2	---	---	0 B	37.2 B	2.71	1.27	0.738	0.182	0.039	0.071	---	---	2
3	---	---	0 B	38.6 B	2.54	1.23	0.782	0.148	0.043	0.097	---	---	3
4	---	---	0 B	38.7 B	2.44	1.12	1.43	0.158	0.038	0.172	---	---	4
5	---	---	0.0098	32.6 B	2.35	1.05	4.59	0.184	0.032	0.183	---	---	5
6	---	---	2.34 B	33.0 B	2.13	0.988	5.50	0.146	0.027	0.141	---	---	6
7	---	---	13.6 B	38.0 B	1.98	0.954	5.61	0.102	0.025	0.135	---	---	7
8	---	---	20.6 B	35.5 B	1.90	0.791	4.72	0.074	0.024	0.110	---	---	8
9	---	---	22.4 B	22.8 B	1.78	0.708	3.80	0.053	0.025	0.092	---	---	9
10	---	---	25.1 B	19.0 B	1.62	0.625	3.10	0.041	0.024	0.088	---	---	10
11	---	---	25.8 B	16.2 B	1.52	0.523	2.40	0.030	0.024	0.078	---	---	11
12	---	---	26.1 B	16.2 B	1.71	0.477	1.88	0.021	0.121	0.079	---	---	12
13	---	---	23.0 B	19.1 B	2.33	0.451	1.36	0.015	0.212	0.083	---	---	13
14	---	---	21.0 B	12.6 B	3.28	0.481	0.952	0.011	0.143	0.086	---	---	14
15	---	---	15.0 B	8.888	3.92	0.505	0.733	0.008	0.133	0.086	---	---	15
16	---	---	7.86 B	7.628	3.74	0.787	0.582	0.005	0.130	0.075	---	---	16
17	---	---	4.64 B	6.088	3.44	1.55	0.433	0.005	0.128	0.070	---	---	17
18	---	---	2.51 B	5.758	3.33	2.40	0.387	0.005	0.112	0.082	---	---	18
19	---	---	1.59 B	5.33	3.33	2.20	0.351	0.004	0.102	0.131	---	---	19
20	---	---	0.9628	4.81	3.22	1.83	0.355	0.004	0.093	0.147	---	---	20
21	---	---	0.6768	4.59	2.85	1.59	0.384	0.006	0.088	0.153	---	---	21
22	---	---	0.5238	4.43	2.63	1.48	0.319	0.007	0.083	0.186	---	---	22
23	---	---	0.4948	4.27	2.48	1.58	0.273	0.008	0.081	0.194	---	---	23
24	---	---	0.5208	3.93	2.21	1.85	0.237	0.010	0.078	0.187	---	---	24
25	---	---	0.4438	3.70	2.02	2.49	0.195	0.015	0.080	0.178	---	---	25
26	---	---	0.3838	3.48	1.86	2.26	0.184	0.019	0.047	0.172	---	---	26
27	---	---	0.3678	3.31	1.56	1.84	0.148	0.020	0.037	0.170	---	---	27
28	---	---	0.3838	3.27	1.45	1.55	0.131	0.024	0.032	0.170	---	---	28
29	---		0.5138	3.16	1.35	1.27	0.119	0.026	0.041	0.173	---	---	29
30	---		1.63 B	3.09	1.29	1.03	0.121	0.030	0.071	0.168	---	---	30
31	---		14.3 B		1.30		0.122	0.035		0.168		---	31
TOTAL	---	---	233.385	456.48	73.24	38.321	42.618	1.579	2.123	3.971	---	---	TOTAL
MEAN	---	---	7.53	15.2	2.36	1.28	1.37	0.051	0.071	0.128	---	---	MEAN
MAX	---	---	26.1	38.7	3.92	2.49	5.61	0.184	0.212	0.194	---	---	MAX
MIN	---	---	0	3.09	1.29	0.451	0.119	0.004	0.024	0.070	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.47
MAXIMUM DAILY, 38.78 ON APR 4
MINIMUM DAILY, 00 ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 40 N
LONG 96 59 19 W

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 680
FEB	---	AUG	136
MAR	20 200	SEP	183
APR	39 400	OCT	343
MAY	6 330	NOV	---
JUN	3 310	DEC	---

TOTAL DISCHARGE, 73 600 dam³

SEINE RIVER DIVERSION NEAR STE ANNE - STATION NO. 05OH008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	13.8 B	2.17	0.948	0.402	0	0	0	---	---	1
2	---	---	0 B	26.1 B	2.09	0.850	0.504	0	0	0	---	---	2
3	---	---	0 B	22.0 B	2.03	0.825	0.801	0	0	0	---	---	3
4	---	---	0 B	13.2 B	1.86	0.804	3.68	0	0	0	---	---	4
5	---	---	0 B	9.058	1.74	0.786	5.14	0	0	0	---	---	5
6	---	---	0 B	10.5 B	1.46	0.782	5.61	0	0	0	---	---	6
7	---	---	0.020B	13.2 B	1.42	0.616	4.54	0	0	0	---	---	7
8	---	---	2.39 B	11.4 B	1.28	0.501	3.46	0	0	0	---	---	8
9	---	---	2.48 B	12.3 B	1.18	0.422	2.85	0	0	0	---	---	9
10	---	---	2.10 B	14.0 B	1.16	0.334	2.01	0	0	0	---	---	10
11	---	---	1.97 B	12.6 B	1.16	0.312	1.34	0	0	0	---	---	11
12	---	---	2.23 B	10.8	1.46	0.307	0.848	0	0	0	---	---	12
13	---	---	2.02 B	8.41	2.26	0.299	0.566	0	0	0	---	---	13
14	---	---	1.78 B	7.55	3.32	0.296	0.410	0	0	0	---	---	14
15	---	---	1.63 B	6.59	3.40	0.534	0.242	0	0	0	---	---	15
16	---	---	1.31 B	5.38	3.09	0.781	0.148	0	0	0	---	---	16
17	---	---	0.132B	4.48	2.82	1.66	0.052	0	0	0	---	---	17
18	---	---	0.018B	4.20	2.64	1.77	0.018	0	0	0	---	---	18
19	---	---	0.009B	3.83	2.45	1.43	0.012	0	0	0	---	---	19
20	---	---	0.006B	3.61	2.37	1.27	0.007	0	0	0	---	---	20
21	---	---	0.013B	3.47	2.18	0.956	0.002	0	0	0	---	---	21
22	---	---	0.007B	3.30	2.14	1.06	0	0	0	0	---	---	22
23	---	---	0.003B	3.15	2.06	1.25	0	0	0	0	---	---	23
24	---	---	0 B	2.90	1.73	1.81	0	0	0	0	---	---	24
25	---	---	0 B	2.68	1.55	1.56	0	0	0	0	---	---	25
26	---	---	0 B	2.59	1.33	1.33	0	0	0	0	---	---	26
27	---	---	0 B	2.55	1.24	1.03	0	0	0	0	---	---	27
28	---	---	0 B	2.54	1.06	0.813	0	0	0	0	---	---	28
29	---		0.001B	2.41	0.989	0.629	0	0	0	0	---	---	29
30	---		0.180B	2.25	0.987	0.408	0	0	0	0	---	---	30
31	---		2.74 B		0.998		0	0		0		---	31
TOTAL	---	---	21.039	241.82	57.494	26.263	32.442	0	0	0	---	---	TOTAL
MEAN	---	---	0.679	8.06	1.85	0.876	1.05	0	0	0	---	---	MEAN
MAX	---	---	2.74	26.1	3.40	1.81	5.61	0	0	0	---	---	MAX
MIN	---	---	0	2.25	0.987	0.298	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.55
MAXIMUM DAILY, 26.1B ON APR 2
MINIMUM DAILY, 0B ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 10 N
LONG 96 39 10 W

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 800
FEB	---	AUG	0
MAR	1 820	SEP	0
APR	20 900	OCT	0
MAY	4 970	NOV	---
JUN	2 270	DEC	---

TOTAL DISCHARGE, 32 800 dam³

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.069B	0.101B	0.201B	6.87 B	0.634	0.487	0.615	0.380	0.185	0.106	0.282	0.174B	1
2	0.067B	0.084B	0.198B	12.2 B	0.627	0.495	0.606	0.519	0.150	0.176	0.251	0.173B	2
3	0.065B	0.089B	0.181B	13.0 B	0.602	0.514	0.561	0.547	0.156	0.153	0.209	0.173B	3
4	0.064B	0.095B	0.180B	13.0 B	0.578	0.534	0.714	0.602	0.138	0.133	0.200	0.167B	4
5	0.062B	0.100B	0.172B	15.5 B	0.578	0.492	0.827	0.518	0.128	0.089	0.192	0.171B	5
6	0.054B	0.107B	0.207B	19.2 B	0.578	0.493	0.858	0.407	0.112	0.088A	0.200	0.157B	6
7	0.046B	0.113B	1.30 B	19.8 B	0.548	0.493	0.824	0.313	0.111	0.123E	0.200	0.150B	7
8	0.039B	0.116B	2.01 B	17.6 B	0.531	0.490	0.744	0.245	0.110	0.163E	0.184	0.146B	8
9	0.033B	0.115B	2.02 B	13.5 B	0.511	0.471	0.656	0.188	0.108	0.211E	0.123	0.190B	9
10	0.026B	0.116B	1.67 B	9.99 B	0.522	0.470	0.587	0.159	0.115	0.274E	0.229B	0.173B	10
11	0.021B	0.126B	1.67 B	3.08	0.559	0.467	0.552	0.127	0.115	0.347E	0.231B	0.145B	11
12	0.016B	0.140B	2.24 B	2.24	0.598	0.462	0.526	0.118	0.123	0.420E	0.217B	0.119B	12
13	0.025B	0.143B	2.03 B	1.43	0.628	0.491	0.521	0.115	0.180	0.389E	0.220B	0.086B	13
14	0.036B	0.141B	2.26 B	1.32	0.741	0.508	0.507	0.113	0.155	0.360E	0.215B	0.077B	14
15	0.047B	0.137B	2.30 B	1.39	0.750	0.508	0.488	0.114	0.147	0.329E	0.194B	0.068B	15
16	0.062B	0.130B	1.38 B	1.41	0.704	0.518	0.484	0.113	0.156	0.300E	0.188B	0.060B	16
17	0.079B	0.116B	0.920B	1.24	0.646	0.519	0.480	0.111	0.155	0.272A	0.172B	0.040B	17
18	0.088B	0.113B	0.645B	1.01	0.620	0.498	0.480	0.111	0.142	0.162	0.188B	0.033B	18
19	0.123B	0.135B	0.435B	0.987	0.605	0.517	0.482	0.110	0.130	0.139	0.200B	0.025B	19
20	0.148B	0.142B	0.242B	0.982	0.577	0.513	0.458	0.109	0.130	0.137	0.188B	0.019B	20
21	0.177B	0.139B	0.130B	1.07	0.567	0.511	0.440	0.108	0.135	0.138	0.127B	0.018B	21
22	0.165B	0.149B	0.078B	1.02	0.555	0.502	0.415	0.108	0.115	0.181	0.220B	0.013B	22
23	0.153B	0.153B	0.043B	1.01	0.543	0.514	0.397	0.107	0.112	0.245	0.294B	0.010B	23
24	0.142B	0.152B	0.015B	0.968	0.542	0.574	0.383	0.108	0.113	0.245	0.317B	0.008B	24
25	0.150B	0.155B	0.006B	0.895	0.518	0.583	0.362	0.106	0.112	0.245	0.239B	0.007B	25
26	0.157B	0.200B	0.007B	0.782	0.505	0.580	0.329	0.105	0.120	0.285	0.234B	0.006B	26
27	0.136B	0.195B	0.009B	0.755	0.498	0.541	0.289	0.104	0.112	0.345	0.226B	0.006B	27
28	0.113B	0.201B	0.007B	0.720	0.521	0.498	0.249	0.131	0.110	0.275	0.200B	0.006B	28
29	0.116B		0.006B	0.589	0.525	0.514	0.210	0.458	0.108	0.261	0.191B	0.055B	29
30	0.119B		0.207B	0.626	0.517	0.619	0.229	0.353	0.104	0.256	0.181B	0.055B	30
31	0.123B		2.21 B		0.500		0.348	0.247		0.283		0.055B	31
TOTAL	2.731	3.713	25.238	180.252	17.926	15.537	15.682	6.950	3.885	7.000	6.363	2.621	TOTAL
MEAN	0.088	0.133	0.814	5.34	0.578	0.518	0.506	0.224	0.129	0.226	0.212	0.085	MEAN
MAX	0.177	0.201	2.30	19.8	0.750	0.619	0.858	0.602	0.185	0.420	0.317	0.190	MAX
MIN	0.016	0.084	0.006	0.589	0.498	0.462	0.210	0.104	0.104	0.088	0.127	0.006	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.734
MAXIMUM DAILY, 19.8B ON APR 7
MINIMUM DAILY, 0.006B ON MAR 25
MAXIMUM INSTANTANEOUS,
20.4B AT 04:58 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 46 15 N
LONG 96 55 10 W
DRAINAGE AREA, 1 080 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1961

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	236	JUL	1 350
FEB	321	AUG	600
MAR	2 180	SEP	334
APR	13 400	OCT	605
MAY	1 550	NOV	550
JUN	1 340	DEC	226

TOTAL DISCHARGE, 23 100 dam³

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1168	14.3 B	2.19	1.54	1.13	0.397E	0.143	0.076	---	---	1
2	---	---	0.1168	27.0 B	2.09	1.50	1.11	0.448E	0.140	0.076	---	---	2
3	---	---	0.1008	24.0 B	2.03	1.48	1.14	0.513E	0.137	0.084	---	---	3
4	---	---	0.0858	13.8 B	1.99	1.46	1.88	0.373A	0.134	0.163	---	---	4
5	---	---	0.1048	9.688	1.92	1.45	2.94	0.256	0.134	0.137	---	---	5
6	---	---	0.5138	8.088	2.14A	1.43	3.28	0.188	0.134	0.231	---	---	6
7	---	---	2.96 B	10.8 B	2.08E	1.38	3.38	0.169	0.134	0.131	---	---	7
8	---	---	3.24 B	13.6 B	2.03E	1.28	3.29	0.154	0.122	0.122	---	---	8
9	---	---	4.05 B	14.7 B	1.98E	1.18	2.76	0.148	0.129	0.136	---	---	9
10	---	---	2.42 B	14.6 B	2.01E	1.09	2.13	0.140	0.139	0.141	---	---	10
11	---	---	2.26 B	12.9 B	2.11E	1.03	1.67 A	0.135	0.132	0.189	---	---	11
12	---	---	2.61 B	8.58	2.23E	0.990	1.38 E	0.132	0.086	0.147	---	---	12
13	---	---	3.38 B	7.73	2.33E	0.964	1.25 E	0.131	0.107	0.173	---	---	13
14	---	---	3.05 B	6.21	2.67E	0.942	1.14 E	0.130	0.089	0.235	---	---	14
15	---	---	2.94 B	5.33	2.89E	0.972	1.07 E	0.129	0.088	0.188	---	---	15
16	---	---	2.13 B	4.37	2.56E	1.04	1.06 E	0.129	0.082	0.181	---	---	16
17	---	---	1.14 B	3.68	2.38E	1.24	1.06 E	0.130	0.080	0.163	---	---	17
18	---	---	0.7048	3.30	2.31E	1.39	1.00 E	0.122	0.084	0.180	---	---	18
19	---	---	0.4718	3.10	2.27E	1.46	1.03 E	0.120	0.073	0.171	---	---	19
20	---	---	0.6038	2.95	2.19E	1.49	1.04 E	0.118	0.075	0.176	---	---	20
21	---	---	1.04 B	2.80	2.14E	1.53	1.01 E	0.117	0.078	0.175	---	---	21
22	---	---	0.3778	2.68	2.13E	1.53	0.969E	0.116	0.078	0.219	---	---	22
23	---	---	0.2158	2.78	2.12E	1.55	0.924E	0.114	0.076	0.336	---	---	23
24	---	---	0.1758	2.61	2.12A	1.84	0.814E	0.118	0.074	0.331	---	---	24
25	---	---	0.1008	2.51	1.99	1.71	0.782E	0.123	0.074	0.312	---	---	25
26	---	---	0.1678	2.51	1.85	1.71	0.867E	0.467	0.075	0.302	---	---	26
27	---	---	0.3498	2.50	1.72	1.58	0.645E	0.341	0.075	0.302	---	---	27
28	---	---	0.6898	2.50	1.64	1.48	0.591E	0.218	0.100	0.290	---	---	28
29	---		1.46 B	2.46	1.58	1.27	0.519E	0.178	0.092	0.260	---	---	29
30	---		2.78 B	2.32	1.55	1.15	0.500E	0.172	0.078	0.234	---	---	30
31	---		5.27 B		1.55		0.428E	0.178		0.231	---	---	31
TOTAL	---	---	46.614	235.58	64.60	40.435	42.518	6.200	3.089	6.040	---	---	TOTAL
MEAN	---	---	1.50	7.88	2.08	1.35	1.37	0.200	0.102	0.195	---	---	MEAN
MAX	---	---	6.27	27.0	2.89	1.71	3.38	0.513	0.143	0.336	---	---	MAX
MIN	---	---	0.085	2.32	1.55	0.942	0.428	0.114	0.073	0.076	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.82
MAXIMUM DAILY, 27.0B ON APR 2
MINIMUM DAILY, 0.073 ON SEP 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 10 N
LONG 96 37 00 W
DRAINAGE AREA, 704 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 680
FEB	---	AUG	538
MAR	4 030	SEP	265
APR	20 400	OCT	522
MAY	5 580	NOV	---
JUN	3 490	DEC	---

TOTAL DISCHARGE, 38 500 dam³

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.79 B	0.033	0.151	0.148	0	0	0	---	---	1
2	---	---	0 B	0.435B	0.029	0.151	0.148	0	0	0	---	---	2
3	---	---	0 B	1.79 B	0.029	0.143	0.144	0	0	0	---	---	3
4	---	---	0.0058	3.59	0.031	0.128	0.147	0	0	0	---	---	4
5	---	---	0.1448	4.81	0.052	0.115	0.131	0	0	0	---	---	5
6	---	---	0.3708	4.41	0.076	0.084	0.126	0	0	0	---	---	6
7	---	---	0.2958	3.31	0.082	0.071	0.118	0	0	0	---	---	7
8	---	---	0.2008	2.88	0.107	0.056	0.103	0	0	0	---	---	8
9	---	---	0.1708	2.49	0.112	0.038	0.083	0	0	0	---	---	9
10	---	---	0.1568	1.81	0.113	0.024	0.069	0	0	0	---	---	10
11	---	---	0.4208	1.02	0.111	0.010	0.041	0	0	0	---	---	11
12	---	---	1.54 B	0.837	0.130	0.001	0.022	0	0	0	---	---	12
13	---	---	1.25 B	0.376	0.167	0.001	0.008	0	0	0	---	---	13
14	---	---	0.9608	0.258	0.187	0	0	0	0	0	---	---	14
15	---	---	0.7138	0.158	0.207	0	0	0	0	0	---	---	15
16	---	---	0.4658	0.110	0.214	0	0	0	0	0	---	---	16
17	---	---	0.4218	0.062	0.215	0	0	0	0	0	---	---	17
18	---	---	0.3778	0.119	0.220	0	0	0	0	0	---	---	18
19	---	---	0.2388	0.156	0.218	0	0	0	0	0	---	---	19
20	---	---	0.2138	0.238	0.220	0	0	0	0	0	---	---	20
21	---	---	0.1788	0.290	0.232	0	0	0	0	0	---	---	21
22	---	---	0.1468	0.230	0.233	0	0	0	0	0	---	---	22
23	---	---	0.1238	0.178	0.238	0.055	0	0	0	0	---	---	23
24	---	---	0.1088	0.134	0.228	0.204	0	0	0	0	---	---	24
25	---	---	0.1008	0.115	0.207	0.208	0	0	0	0	---	---	25
26	---	---	0.0858	0.112	0.215	0.204	0	0	0	0	---	---	26
27	---	---	0.0898	0.097	0.202	0.195	0	0	0	0	---	---	27
28	---	---	0.0858	0.072	0.188	0.183	0	0	0	0	---	---	28
29	---		0.3728	0.057	0.182	0.187	0	0	0	0	---	---	29
30	---		1.40 B	0.054	0.174	0.181	0	0	0	0	---	---	30
31	---		1.80 B		0.168		0	0		0	---	---	31
TOTAL	---	---	12.231	31.990	4.840	2.368	1.284	0	0	0	---	---	TOTAL
MEAN	---	---	0.395	1.07	0.156	0.079	0.041	0	0	0	---	---	MEAN
MAX	---	---	1.80	4.81	0.238	0.208	0.148	0	0	0	---	---	MAX
MIN	---	---	0	0.054	0.029	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.215
MAXIMUM DAILY, 4.81 ON APR 5
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
5.61 AT 12:13 CST ON APR 5

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 16 10 N
LONG 97 58 40 W
DRAINAGE AREA, 308 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	111
FEB	---	AUG	0
MAR	1 080	SEP	0
APR	2 780	OCT	0
MAY	418	NOV	---
JUN	205	DEC	---

TOTAL DISCHARGE, 4 550 dam³

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.00 B	0.252	0.031E	0	0	0	0	---	---	1
2	---	---	0 B	8.50 B	0.202	0.028E	0.021	0	0	0	---	---	2
3	---	---	0 B	11.0 B	0.183	0.027E	0.012	0	0	0	---	---	3
4	---	---	0.250B	13.5 B	0.121	0.024E	0.008	0	0	0	---	---	4
5	---	---	1.20 B	16.0 B	0.091	0.021E	0.005	0	0	0	---	---	5
6	---	---	1.05 B	18.5	0.070	0.018E	0.005	0	0	0	---	---	6
7	---	---	0.900B	16.8	0.055	0.011E	0.004	0	0	0	---	---	7
8	---	---	0.800B	15.3	0.048	0.008E	0.003	0	0	0	---	---	8
9	---	---	0.720B	11.1	0.043	0.005E	0.903	0	0	0	---	---	9
10	---	---	0.600B	10.8	0.037	0.003E	0.002	0	0	0	---	---	10
11	---	---	0.500B	8.17	0.027	0.002E	0.028	0	0	0	---	---	11
12	---	---	1.50 B	7.18	0.044	0	0.022	0	0	0	---	---	12
13	---	---	1.45 B	3.20	0.048	0	0.012	0	0	0	---	---	13
14	---	---	1.39 B	5.38	0.040	0	0.006	0	0	0	---	---	14
15	---	---	1.43 B	4.13	0.027	0	0.002	0	0	0	---	---	15
16	---	---	4.53 B	3.07	0.021	0	0.001	0	0	0	---	---	16
17	---	---	2.14 B	1.48	0.026	0	0.001	0	0	0	---	---	17
18	---	---	1.33 B	0.835	0.024	0	0.001	0	0	0	---	---	18
19	---	---	0.809B	0.527	0.021	0	0	0	0	0	---	---	19
20	---	---	0.631B	0.490	0.021	0	0	0	0	0	---	---	20
21	---	---	0.449B	0.488	0.028	0	0	0	0	0	---	---	21
22	---	---	0.141B	0.468	0.028	0.031	0	0	0	0	---	---	22
23	---	---	0.175B	0.514	0.028	0.024	0	0	0	0	---	---	23
24	---	---	0.128B	0.540	0.028	0.006	0	0	0	0	---	---	24
25	---	---	0.121B	0.454	0.040	0.002	0	0	0	0	---	---	25
26	---	---	0.114B	0.418	0.040	0.001	0	0	0	0	---	---	26
27	---	---	0.107B	0.407	0.044	0.001	0	0	0	0	---	---	27
28	---	---	0.100B	0.387E	0.046	0	0	0	0	0	---	---	28
29	---		0.457B	0.342E	0.040	0	0	0	0	0	---	---	29
30	---		2.50 B	0.301E	0.040	0	0	0	0	0	---	---	30
31	---		3.58 B		0.034E		0	0		0		---	31
TOTAL	---	---	29.102	166.057	1.775	0.243	0.134	0	0	0	---	---	TOTAL
MEAN	---	---	0.939	5.54	0.057	0.008	0.004	0	0	0	---	---	MEAN
MAX	---	---	4.53	18.5	0.252	0.031	0.028	0	0	0	---	---	MAX
MIN	---	---	0	0.301	0.021	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.805
MAXIMUM DAILY, 18.5 ON APR 6
MINIMUM DAILY, 0B ON MAR 1

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 21 17 N
LONG 97 25 18 W
DRAINAGE AREA, 853 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	11.6
FEB	---	AUG	0
MAR	2 510	SEP	0
APR	14 300	OCT	0
MAY	153	NOV	---
JUN	21.0	DEC	---

TOTAL DISCHARGE, 17 000 dam³

SHANNON CREEK TRIBUTARY NEAR MYRTLE - STATION NO. 05OF015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.25 B	0.042	0	0	0	0	0	---	---	1
2	---	---	0 B	1.95 B	0.026	0	0	0	0	0	---	---	2
3	---	---	0 B	4.52 B	0.020	0	0	0	0	0	---	---	3
4	---	---	0 B	5.08 B	0.015	0	0	0	0	0	---	---	4
5	---	---	0 B	8.97 B	0.011	0	0	0	0	0	---	---	5
6	---	---	0 B	8.19 B	0.011	0	0	0	0	0	---	---	6
7	---	---	0 B	4.18	0.009	0	0	0	0	0	---	---	7
8	---	---	0 B	2.62	0.007	0	0	0	0	0	---	---	8
9	---	---	0 B	1.43	0.003	0	0	0	0	0	---	---	9
10	---	---	0 B	1.11	0	0	0	0	0	0	---	---	10
11	---	---	0 B	0.823	0	0	0	0	0	0	---	---	11
12	---	---	0 B	0.643	0.001	0	0	0	0	0	---	---	12
13	---	---	0 B	0.218B	0.004	0	0	0	0	0	---	---	13
14	---	---	0 B	0.215B	0.003	0	0	0	0	0	---	---	14
15	---	---	0 B	0.212B	0.002	0	0	0	0	0	---	---	15
16	---	---	0 B	0.209B	0.002	0	0	0	0	0	---	---	16
17	---	---	0 B	0.193	0	0	0	0	0	0	---	---	17
18	---	---	0 B	0.170	0	0	0	0	0	0	---	---	18
19	---	---	0 B	0.153	0	0	0	0	0	0	---	---	19
20	---	---	0 B	0.144	0	0	0	0	0	0	---	---	20
21	---	---	0 B	0.146	0	0	0	0	0	0	---	---	21
22	---	---	0 B	0.141	0	0	0	0	0	0	---	---	22
23	---	---	0 B	0.120	0	0	0	0	0	0	---	---	23
24	---	---	0 B	0.105	0	0	0	0	0	0	---	---	24
25	---	---	0 B	0.089	0	0	0	0	0	0	---	---	25
26	---	---	0 B	0.082	0	0	0	0	0	0	---	---	26
27	---	---	0 B	0.089	0	0	0	0	0	0	---	---	27
28	---	---	0 B	0.080	0	0	0	0	0	0A	---	---	28
29	---		0.250B	0.080	0	0	0	0	0	0E	---	---	29
30	---		1.00 B	0.084	0	0	0	0	0	0E	---	---	30
31	---		2.50 B		0		0	0		0E		---	31
TOTAL	---	---	3.750	45.242	0.156	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.121	1.51	0.005	0	0	0	0	0	---	---	MEAN
MAX	---	---	2.50	8.97	0.042	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.080	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.201
MAXIMUM DAILY, 8.97B ON APR 5
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
10.8B AT 21:19 CST ON APR 5

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 20 34 N
LONG 97 50 33 W
DRAINAGE AREA, 188 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	324	SEP	0
APR	3 910	OCT	0
MAY	13.5	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 4 250 dam³

SHARPE LAKE NEAR DELORAINE - STATION NO. 05MF805

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	657.648E	657.644	657.584	657.497E	657.380	657.372	657.342E	---	1
2	---	---	---	---	657.646	657.648E	657.589E	657.497	657.380E	657.367E	657.342	---	2
3	---	---	657.540	---	657.648E	657.654	657.594	657.492E	657.380	657.362	657.342E	---	3
4	---	---	---	---	657.646	657.639E	657.589E	657.488	657.375E	657.367E	657.342	---	4
5	---	---	---	---	657.648E	657.624	657.584	657.483E	657.370	657.372	657.352E	---	5
6	---	---	---	---	657.646	657.619E	657.584E	657.478	657.365E	657.372E	657.382	---	6
7	---	---	---	---	657.648E	657.614	657.584	657.473E	657.380	657.372	657.362E	---	7
8	---	---	---	---	657.646	657.609E	657.579E	657.468	657.360E	657.372E	657.362	---	8
9	---	---	---	---	657.648E	657.604	657.574	657.463E	657.360	657.372	657.362E	---	9
10	---	---	---	---	657.646	657.604E	657.589E	657.458	657.355E	657.372E	657.362	---	10
11	---	---	---	---	657.619	657.604	657.564	657.453E	657.350	657.372	657.362E	---	11
12	---	---	---	---	657.634	657.589E	657.559E	657.448	657.350E	657.372E	657.362	---	12
13	---	---	---	657.602	657.639E	657.594	657.554	657.443E	657.350	657.372	657.357E	---	13
14	---	---	---	---	657.644	657.589E	657.544E	657.438	657.355E	657.367E	657.352	---	14
15	---	---	---	---	657.644E	657.584	657.534	657.433E	657.361	657.362	657.352E	---	15
16	---	---	---	---	657.644	657.578E	657.529E	657.428	657.371E	657.362E	657.352	---	16
17	---	---	---	---	657.644E	657.574	657.524	657.423E	657.381	657.362	657.352E	---	17
18	---	---	---	---	657.644	657.569E	657.524E	657.419	657.381E	657.362E	657.352	---	18
19	---	---	---	---	657.649E	657.564	657.544	657.414E	657.381	657.362	657.352E	---	19
20	---	---	---	---	657.654	657.564E	657.539E	657.409	657.381E	657.362E	657.352	---	20
21	---	---	---	---	657.654E	657.564	657.534	657.409E	657.381	657.362	657.357E	---	21
22	---	---	---	---	657.654	657.574E	657.534E	657.409	657.378E	657.357E	657.362	---	22
23	---	---	---	---	657.654E	657.584	657.534	657.404E	657.371	657.352	657.362	---	23
24	---	---	---	657.646	657.654	657.584E	657.529E	657.399	657.371E	657.352E	---	---	24
25	---	---	---	657.648E	657.654	657.584	657.524	657.399E	657.371	657.352	---	---	25
26	---	---	---	657.646	657.644	657.564E	657.525	657.399	657.368E	657.347E	---	---	26
27	---	---	---	657.648E	657.644E	657.544	657.517	657.394E	657.381	657.342	---	---	27
28	---	---	---	657.646	657.644	657.554E	657.512E	657.389	657.381E	657.342E	---	---	28
29	---		---	657.648E	657.644E	657.564	657.507	657.389E	657.362	657.342	---	---	29
30	---		---	657.646	657.644	657.574E	657.502E	657.389	657.367E	657.342E	---	---	30
31	---		---		657.644E		657.497	657.384E		657.342		---	31
MEAN	---	---	---	---	657.645	657.592	657.547	657.434	657.368	657.381	---	---	MEAN
MAX	---	---	---	---	657.654	657.654	657.594	657.497	657.381	657.372	---	---	MAX
MIN	---	---	---	---	657.619	657.644	657.497	657.384	657.350	657.342	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 02 39 N
LONG 100 19 25 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.8258	0.8738	0.7888	0.7048	20.2	11.7	6.34	3.86	0.870	0.804	1.44	1.55 B	1
2	0.8588	0.8708	0.7868	0.7028	17.8	10.8	6.02	3.70	0.833	0.752	1.43	1.55 B	2
3	0.9048	0.8678	0.7838	0.6988	14.0	9.97	5.34	3.13	0.745	0.808	1.44	1.49 B	3
4	0.9048	0.8645	0.7808	0.6968	13.0	9.25	5.83	3.24	0.703	0.786	1.46	1.43 B	4
5	0.9048	0.8608	0.7788	0.6938	12.2	8.63	5.39	3.09	0.690	0.813	1.49	1.37 B	5
6	0.8588	0.8578	0.7758	0.6918	11.4	8.18	5.24	2.90	0.701	0.802	1.49	1.31 B	6
7	0.8138	0.8548	0.7728	0.7258	10.4	7.90	5.13	2.68	0.670	0.830	1.51	1.25 B	7
8	0.7918	0.8518	0.7698	1.69 B	9.55	7.76	5.10	2.48	0.642	0.872	1.53	1.19 B	8
9	0.7588	0.8488	0.7678	1.16 B	9.05	7.37	5.22	2.35	0.693	0.857	1.51	1.13 B	9
10	0.7258	0.8458	0.7648	0.7608	8.59	7.18	5.13	2.22	0.780	0.985	1.54	1.08 B	10
11	0.6918	0.8428	0.7618	0.6953	8.02	7.03	8.27	2.09	0.781	1.09	1.51	1.02 B	11
12	0.6498	0.8398	0.7588	0.6788	7.78	7.03	7.87	1.95	0.810	1.22	1.48	0.9578	12
13	0.6118	0.8368	0.7568	0.6728	8.21	7.12	8.98	1.87	0.722	1.20	1.50	0.8978	13
14	0.6018	0.8338	0.7538	0.6658	8.42	6.90	7.41	1.77	0.848	1.27	1.54	0.8388	14
15	0.5828	0.8308	0.7508	0.6568	7.91	6.78	7.82	1.71	0.868	1.55	1.56	0.8288	15
16	0.8208	0.8278	0.7488	0.6638	7.55	6.45	7.38	1.66	0.868	1.84	1.58	0.8198	16
17	0.7478	0.8238	0.7458	0.6618	7.95	6.47	7.03	1.74	0.861	1.72	1.58	0.8098	17
18	0.9168	0.8208	0.7428	0.6588	8.93	6.82	7.11	1.88	0.795	1.67	1.58	0.8008	18
19	0.9138	0.8178	0.7398	8.38	8.78	7.07	8.80	1.81	0.740	1.62	1.63	0.7908	19
20	0.9108	0.8148	0.7378	15.1	8.80	8.99	8.37	1.47	0.732	1.60	1.88	0.7808	20
21	0.9078	0.8118	0.7348	17.4	10.1	8.80	8.18	1.39	0.738	1.60	1.648	0.7708	21
22	0.9048	0.8088	0.7318	17.0	11.8	8.75	7.45	1.31	0.723	1.59	1.638	0.7618	22
23	0.9018	0.8058	0.7288	12.7	13.3	8.69	6.69	1.26	0.656	1.58	1.628	0.7518	23
24	0.8978	0.8028	0.7268	22.1 A	15.5	8.42	6.12	1.19	0.581	1.55	1.628	0.7418	24
25	0.8948	0.7998	0.7238	21.5 E	15.8	8.21	5.71	1.15	0.562	1.51	1.618	0.7328	25
26	0.8918	0.7978	0.7218	20.8 E	16.4	7.31	5.38	1.17	0.602	1.51	1.608	0.7228	26
27	0.8888	0.7948	0.7188	20.5 E	17.3	9.78	4.99	1.14	0.533	1.51	1.598	0.7128	27
28	0.8858	0.7918	0.7158	20.2 A	18.3	8.34	4.66	1.08	0.520	1.53	1.588	0.7038	28
29	0.8828		0.7138	20.5	18.2	7.26	4.42	1.01	0.454	1.51	1.578	0.6938	29
30	0.8798		0.7108	20.5	17.1	6.70	4.32	0.968	0.505	1.48	1.578	0.6838	30
31	0.8768		0.7078		14.8		4.13	0.907		1.45		0.6738	31
TOTAL	25.384	23.277	23.177	227.583	376.94	229.49	196.43	59.775	21.405	39.699	46.78	29.838	TOTAL
MEAN	0.819	0.831	0.748	7.59	12.2	7.65	6.34	1.93	0.714	1.28	1.56	0.963	MEAN
MAX	0.918	0.873	0.788	22.1	20.2	11.7	9.27	3.86	0.922	1.84	1.88	1.56	MAX
MIN	0.582	0.791	0.707	0.658	7.55	6.21	4.13	0.907	0.454	0.804	1.43	0.673	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.56
MAXIMUM DAILY, 22.1A ON APR 24
MINIMUM DAILY, 0.454 ON SEP 19

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 40 N
LONG 101 19 05 W
DRAINAGE AREA, 2 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 190	JUL	17 000
FEB	2 010	AUG	5 160
MAR	2 000	SEP	1 850
APR	19 700	OCT	3 430
MAY	32 500	NOV	4 040
JUN	19 800	DEC	2 580

TOTAL DISCHARGE, 112 090 dam³

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.550B	0.738B	10.8	8.10	4.24	1.87	---	---	---	---	1
2	---	---	0.551B	0.756B	10.3	7.45	4.04	1.91	---	---	---	---	2
3	---	---	0.553B	0.773B	9.67	7.01	3.91	1.82	---	---	---	---	3
4	---	---	0.554B	0.791B	8.98A	6.71	4.09	1.53	---	---	---	---	4
5	---	---	0.555B	0.809B	8.48A	6.45	4.07	1.36	---	---	---	---	5
6	---	---	0.557B	0.827B	7.37A	6.12	4.15	1.21	---	---	---	---	6
7	---	---	0.558B	0.844B	7.03A	5.85	3.98	1.11	---	---	---	---	7
8	---	---	0.559B	0.862B	6.88A	5.72	3.75	1.07	---	---	---	---	8
9	---	---	0.561B	0.880B	6.64A	5.69	5.07	1.02	---	---	---	---	9
10	---	---	0.562B	0.896B	6.36A	5.76	5.01	0.958	---	---	---	---	10
11	---	---	0.564B	0.912B	6.70A	5.50	4.78	0.885	---	---	---	---	11
12	---	---	0.565B	0.928B	6.96A	5.31	5.99	0.829	---	---	---	---	12
13	---	---	0.566B	0.944B	6.79A	5.61	6.22	0.930	---	---	---	---	13
14	---	---	0.568B	0.960B	6.88A	5.37	5.80	0.924	---	---	---	---	14
15	---	---	0.569B	0.880B	6.92A	5.45	5.45	0.895	---	---	---	---	15
16	---	---	0.576B	0.783B	7.04A	5.82	5.51	0.820	---	---	---	---	16
17	---	---	0.586B	0.712B	7.10A	6.28	5.97	0.733A	---	---	---	---	17
18	---	---	0.597B	0.638B	7.32A	6.09	6.93	---	---	---	---	---	18
19	---	---	0.607B	0.630B	8.44A	5.92	6.85	---	---	---	---	---	19
20	---	---	0.616B	1.09 B	12.1 A	5.74	6.02	---	---	---	---	---	20
21	---	---	0.626B	2.75 B	13.2 A	5.47	5.32	---	---	---	---	---	21
22	---	---	0.635B	4.13 B	13.9 A	5.19	4.80	---	---	---	---	---	22
23	---	---	0.645B	5.00 B	14.4 A	4.90	4.43	---	---	---	---	---	23
24	---	---	0.654B	5.53 B	15.0 A	4.61	4.12	---	---	---	---	---	24
25	---	---	0.663B	10.3 B	16.5 A	9.38	3.78	---	---	---	---	---	25
26	---	---	0.673B	13.1 B	16.6	6.86	3.44	---	---	---	---	---	26
27	---	---	0.682B	15.6 B	15.7	5.80	3.12	---	---	---	---	---	27
28	---	---	0.692B	16.1 B	14.0	5.28	2.90	---	---	---	---	---	28
29	---		0.701B	15.8 B	12.0	5.00	2.68	---	---	---	---	---	29
30	---		0.711B	12.7	10.1	4.80	2.37	---	---	---	---	---	30
31	---		0.720B		8.89		2.19	---		---		---	31
TOTAL	---	---	18.780	124.873	311.41	178.05	140.98	---	---	---	---	---	TOTAL
MEAN	---	---	0.606	4.16	10.0	5.97	4.55	---	---	---	---	---	MEAN
MAX	---	---	0.720	16.1	16.6	9.38	6.93	---	---	---	---	---	MAX
MIN	---	---	0.550	0.630	6.36	4.80	2.19	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.20
MAXIMUM DAILY, 16.6 ON MAY 26
MINIMUM DAILY, 0.550B ON MAR 1
MAXIMUM INSTANTANEOUS,
16.7 AT 08:07 CST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 21 39 N
LONG 101 15 21 W
DRAINAGE AREA, 1 330 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	12 200
FEB	---	AUG	---
MAR	1 620	SEP	---
APR	10 800	OCT	---
MAY	26 900	NOV	---
JUN	15 500	DEC	---

TOTAL DISCHARGE, 54 800 dam³

SHOAL LAKE AT INDIAN BAY - STATION NO. 05PD004

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	323.173	---	---	322.814	---	---	322.747	---	---	---	---	---	1
2	---	---	---	---	---	---	---	---	322.808	---	---	322.853	2
3	---	---	---	---	---	322.716	---	---	---	---	---	---	3
4	---	323.039	322.911	---	---	---	---	---	---	---	322.820	---	4
5	---	---	---	---	---	---	---	322.862	---	---	---	---	5
6	---	---	---	---	322.716	---	---	---	---	---	---	---	6
7	323.149	---	---	---	---	---	---	---	---	322.728	---	---	7
8	---	---	---	322.814	---	---	322.769	---	---	---	---	---	8
9	---	---	---	---	---	---	---	---	322.788	---	---	322.869	9
10	---	---	---	---	---	322.692	---	---	---	---	---	---	10
11	---	323.003	322.906	---	---	---	---	---	---	---	322.820	---	11
12	---	---	---	---	---	---	---	322.832	---	---	---	---	12
13	---	---	---	---	322.728	---	---	---	---	---	---	---	13
14	323.146	---	---	---	---	---	---	---	---	322.734	---	---	14
15	---	---	---	322.783	---	---	322.120	---	322.771	---	---	---	15
16	---	---	---	---	---	---	---	---	---	---	---	322.878	16
17	---	---	---	---	---	322.692	---	---	---	---	---	---	17
18	---	322.984	322.862	---	---	---	---	---	---	---	322.836	---	18
19	---	---	---	---	---	---	---	322.832	---	---	---	---	19
20	---	---	---	---	322.728	---	---	---	---	---	---	---	20
21	323.112	---	---	---	---	---	---	---	---	322.734	---	---	21
22	---	---	---	322.783	---	---	322.814	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	322.737	---	---	322.911	23
24	---	---	---	---	---	322.716	---	---	---	---	---	---	24
25	---	322.951	322.832	---	---	---	---	---	---	---	322.853	---	25
26	---	---	---	---	---	---	---	322.789	---	---	---	---	26
27	---	---	---	---	322.732	---	---	---	---	---	---	---	27
28	323.082	---	---	---	---	---	---	---	---	322.759	---	---	28
29	---		---	322.737	---	---	322.814	---	---	---	---	---	29
30	---		---	---	---	---	---	---	322.734	---	---	322.911	30
31	---		---		---		---	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 37 20 N
LONG 95 12 30 W
DATA CONTRIBUTED BY -
GREATER WINNIPEG WATER DISTRICT

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SNOAL LAKE NEAR SNOAL LAKE - STATION NO. 05MC007

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	546.979	547.076	547.054	546.891	546.841	546.778	546.751	---	1
2	---	---	---	---	546.989	547.076	547.055	546.887	546.839	546.778	546.761	---	2
3	---	---	---	---	546.994	547.074	547.052	546.885	546.838	546.778	546.749	---	3
4	---	---	---	---	547.004	547.072	547.050	546.879	546.838	546.779	546.749	---	4
5	---	---	---	---	547.009	547.070	547.048	546.871	546.831	546.779	546.747	---	5
6	---	---	---	---	547.018	547.064	547.048	546.865	546.825	546.779	546.747	---	6
7	---	---	---	---	547.026	547.074	547.046	546.859	546.819	546.780	546.747	---	7
8	---	---	---	---	547.030	547.072	547.042	546.845	546.815	546.780	546.747	---	8
9	---	---	---	---	547.036	547.070	547.040	546.843	546.809	546.781	546.747	---	9
10	---	---	---	---	547.039E	547.074	547.056	546.939	546.803	546.781	---	---	10
11	---	---	---	---	547.044	547.060	547.056	546.939	546.803	546.781	---	---	11
12	---	---	---	---	547.057E	547.052	547.054	546.935	546.803	546.778	---	---	12
13	---	---	---	---	547.070	547.046	547.054	546.935	546.801	546.777	---	---	13
14	---	---	---	---	547.078	547.040	547.052	546.933	546.801	546.775	---	---	14
15	---	---	---	---	547.084	547.034	547.050	546.925	546.801	546.773	---	---	15
16	---	---	---	---	547.088	547.030	547.052	546.911	546.799	546.771	---	---	16
17	---	---	---	---	547.092	547.026	547.044	546.913	546.789	546.767	---	---	17
18	---	---	---	---	547.095	547.020	547.038	546.901	546.789	546.761	---	---	18
19	---	---	---	---	547.102	547.068	547.034	546.889	546.758	546.761	---	---	19
20	---	---	---	---	547.108	547.064	547.032	546.879	546.795	546.759	---	---	20
21	---	---	---	---	547.108	547.062	547.028	546.873	546.791	546.759	---	---	21
22	---	---	---	---	547.112	547.070	547.024	546.873	546.788	546.755	---	---	22
23	---	---	---	---	547.110	547.062	547.018	546.873	546.786	546.788	---	---	23
24	---	---	---	---	547.110	547.062	547.012	546.873	546.784	546.757	---	---	24
25	---	---	---	546.844	547.096	547.058	547.004	546.869	546.783	546.757	---	---	25
26	---	---	---	546.879	547.092	547.054	546.998	546.867	546.783	546.757	---	---	26
27	---	---	---	546.904	547.088	547.048	546.985	546.863	546.780	546.755	---	---	27
28	---	---	---	546.934	547.084	547.052	546.963	546.858	546.782	546.755	---	---	28
29	---		---	546.944	547.082	547.050	546.975	546.853	546.780	546.755	---	---	29
30	---		---	546.964	547.080	547.058	546.989	546.847	546.778	546.753	---	---	30
31	---		---		547.078		546.995	546.843		546.753		---	31
MEAN	---	---	---	---	547.064	547.058	547.033	546.913	546.803	546.766	---	---	MEAN
MAX	---	---	---	---	547.114	547.078	547.055	546.991	546.841	546.781	---	---	MAX
MIN	---	---	---	---	546.979	547.020	546.975	546.843	546.778	546.753	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 547.114 ON MAY 23

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 28 02 N
LONG 100 35 55 W

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REMARKS - DRY AT GAUGE, APR 1-20, AUG 10-OCT 31

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	1.02	0.747	1.87	0.001	0	0	---	---	1
2	---	---	0B	0 B	0.983	0.639	1.65	0.008	0	0	---	---	2
3	---	---	0B	0 B	0.894	0.604	1.77	0.020	0	0	---	---	3
4	---	---	0B	0 B	0.747	0.591	2.06	0.015	0	0	---	---	4
5	---	---	0B	0 B	0.590	0.552	2.03	0.010	0	0	---	---	5
6	---	---	0B	0 B	0.466	0.430	1.97	0.005	0	0	---	---	6
7	---	---	0B	0 B	0.375	0.438	1.81	0.002	0	0	---	---	7
8	---	---	0B	0 B	0.295	0.474	1.85	0	0	0	---	---	8
9	---	---	0B	0.0120	0.264	0.385	1.54	0	0	0	---	---	9
10	---	---	0B	0.0428	0.250	0.376	1.87	0	0	0.018A	---	---	10
11	---	---	0B	0.0208	0.258	0.660	2.11	0	0	0.887	---	---	11
12	---	---	0B	0.0128	0.620	0.684	1.67	0	0	0.745	---	---	12
13	---	---	0B	0.0078	1.25	0.688	1.52	0	0	0.743	---	---	13
14	---	---	0B	0 B	0.880	1.25	1.45	0	0	0.611	---	---	14
15	---	---	0B	0 B	0.858	1.77	1.40	0	0	0.345	---	---	15
16	---	---	0B	0 B	0.823	1.93	1.44	0	0	0.173	---	---	16
17	---	---	0B	0 B	1.02	1.80	1.37	0	0	0.135	---	---	17
18	---	---	0B	0 B	1.05	1.38	1.39	0	0	0.092	---	---	18
19	---	---	0B	0.0188	1.09	1.32	1.41	0	0	0.074	---	---	19
20	---	---	0B	0.1008	0.898	1.09	1.37	0	0	0.087	---	---	20
21	---	---	0B	0.2318	1.23	0.980	1.32	0	0	0.080	---	---	21
22	---	---	0B	3.11 B	1.76	0.838	1.23	0	0	0.085	---	---	22
23	---	---	0B	5.08 B	1.76	0.815	1.19	0	0	0.105	---	---	23
24	---	---	0B	4.56 B	1.67	0.748	0.948	0	0	0.095	---	---	24
25	---	---	0B	3.68 B	1.76	2.80	0.382	0	0	0.105	---	---	25
26	---	---	0B	2.40 B	1.62	2.13	0.101	0	0	0.112	---	---	26
27	---	---	0B	1.80 B	1.62	2.05	0.035	0	0	0.091	---	---	27
28	---	---	0B	1.32 B	1.22	2.07	0.013	0	0	0.076	---	---	28
29	---		0B	1.23 B	1.08	1.85	0.008	0	0	0.078	---	---	29
30	---		0B	1.15 B	0.917	1.74	0.005	0	0	0.071	---	---	30
31	---		0B		0.784		0.003	0		0.068		---	31
TOTAL	---	---	0	24.770	30.300	33.385	38.278	0.083	0	4.578	---	---	TOTAL
MEAN	---	---	0	0.826	0.977	1.11	1.23	0.002	0	0.148	---	---	MEAN
MAX	---	---	0	5.08	1.87	2.80	2.11	0.020	0	0.745	---	---	MAX
MIN	---	---	0	0	0.264	0.376	0.003	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.536
MAXIMUM DAILY, 5.080 ON APR 23
MINIMUM DAILY, 0B ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 12 26 N
LONG 100 41 43 W
DRAINAGE AREA, 137 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 310
FEB	---	AUG	5.44
MAR	0	SEP	0
APR	2 140	OCT	395
MAY	2 620	NOV	---
JUN	2 890	DEC	---

TOTAL DISCHARGE, 11 400 dam³

SIPIWESK LAKE AT FORESTRY DOCK - STATION NO. 05UD005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4.139	4.105	3.783	3.358	2.881	3.240	2.946	3.159	3.113	3.203	3.438	4.205	1
2	4.127	4.058	3.786	3.344	2.845	3.286	2.965	3.187	3.100	3.188	3.482	4.226	2
3	4.118	4.087	3.777	3.326	2.807	3.283	2.910	3.175	---	3.181	3.537	4.240	3
4	4.117	4.069	3.774	3.315	2.562	3.327	2.878	3.189	---	3.186	3.593	4.248	4
5	4.103	4.034	3.768	3.303	2.524	3.339	2.867	3.191	---	3.194	3.645	4.280	5
6	4.110	3.982	3.746	3.288	2.472	3.332	2.839	3.183	---	3.191	3.663	4.283	6
7	4.109	3.952	3.761	3.261	2.427	3.318	2.831	3.187	---	3.188	3.698	4.276	7
8	4.113	3.910	3.742	3.240	2.387	3.308	2.826	3.189	---	3.176	3.783	4.282	8
9	4.116	3.886	3.724	3.227	2.333	3.283	2.839	3.177	---	3.178	3.784	4.283	9
10	4.106	3.885	3.700	3.203	2.321	3.287	2.824	3.179	---	3.186	3.823	4.277	10
11	4.121	3.865	3.697	3.186	2.313	3.252	2.826	3.184	---	3.187	3.849	4.280	11
12	4.125	3.861	3.687	3.180	2.285	3.210	2.816	3.179	---	3.188	3.867	4.285	12
13	4.116	3.848	3.676	3.168	2.268	3.195	2.821	3.177	---	3.175	3.894	4.287	13
14	4.119	3.848	3.685	3.123	2.271	3.182	2.798	3.185	---	3.185	3.911	4.285	14
15	4.114	3.852	3.655	3.088	2.263	3.132	2.788	3.144	---	3.189	3.918	4.278	15
16	4.112	3.842	3.647	3.068	2.229	3.135	2.842	3.131	---	3.168	3.939	4.277	16
17	4.104	3.831	3.635	3.048	2.227	3.114	2.886	3.133	---	3.162	3.946	4.267	17
18	4.102	3.828	3.623	3.031	2.269	3.100	2.902	3.128	---	3.128	3.968	4.251	18
19	4.098	3.821	3.617	3.008E	2.351	3.078	2.838	3.172	3.268	3.135	3.992	4.240	19
20	4.092	3.818	3.601	2.986A	2.416	3.057	2.957	3.177	3.270	3.141	4.013	4.226	20
21	4.092	3.807	3.581	2.982	2.507	3.040	2.976	3.186	3.275	3.141	4.040	4.214	21
22	4.088	3.815	3.572	2.965	2.580	3.004	3.006	3.189	3.287	3.138	4.042	4.205	22
23	4.108	3.814	3.554	2.940	2.650	3.020	3.034	3.159	3.282	3.142	4.048	4.192	23
24	4.115	3.807	3.533	2.910	2.720	3.008	3.055	3.148	3.288	3.141	4.053	4.180	24
25	4.119	3.803	3.521	2.890	2.807	2.980	3.089	3.143	3.274	3.172	4.082	4.168	25
26	4.116	3.805	3.489	2.885	2.898	2.990	3.122	3.140	3.258	3.181	4.104	4.158	26
27	4.108	3.801	3.486	2.828	2.974	3.003	3.151	3.127	3.248	3.224	4.122	4.148	27
28	4.107	3.798	3.462	2.800	3.055	2.983	3.140	3.127	3.245	3.263	4.145	4.138	28
29	4.108		3.414	2.771	3.132	2.977	3.143	3.121	3.233	3.302	4.167	4.117	29
30	4.107		3.392	2.731	3.173	2.953	3.156	3.113	3.209	3.345	4.187	4.098	30
31	4.107		3.375		3.214		3.161	3.122		3.398		4.078	31
MEAN	4.111	3.885	3.625	3.081	2.585	3.145	2.945	3.159	---	3.190	3.891	4.223	MEAN
MAX	4.139	4.105	3.783	3.358	3.214	3.335	3.161	3.191	---	3.398	4.187	4.287	MAX
MIN	4.092	3.798	3.375	2.731	2.227	2.953	2.788	3.113	---	3.128	3.438	4.078	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 4.287 ON DEC 13
MINIMUM DAILY, 2.227 ON MAY 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 05 40 N
LONG 97 30 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SNOW LAKE AT SNOW LAKE - STATION NO. 05TM001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	274.928E	274.722E	274.930E	274.905	---	274.745E	---	1
2	---	---	---	---	---	274.920	274.722	274.905	274.905E	---	274.738	---	2
3	---	---	---	---	---	274.897E	274.722E	274.897E	274.905	---	274.732E	---	3
4	---	---	---	---	---	274.875	274.722	274.890	274.905E	---	274.727E	---	4
5	274.771	---	---	---	---	274.859E	274.707E	---	274.905E	274.875	274.722	---	5
6	---	---	---	---	---	274.844	274.692	---	274.905	274.858E	274.722E	---	6
7	---	---	---	---	---	274.826E	274.681E	---	274.820E	274.854E	274.722	---	7
8	---	---	---	---	---	274.820E	274.631	---	274.938	274.844	274.714E	---	8
9	---	---	---	---	275.115	274.814	274.631E	---	274.938E	274.844E	274.707	---	9
10	---	---	---	---	275.110E	274.821E	274.631	---	274.938	274.844	274.703E	---	10
11	---	---	---	---	275.115	274.828	274.631E	274.788	274.938E	274.844E	274.697E	---	11
12	---	---	---	---	275.100E	274.835E	274.631	274.792E	274.938E	274.844	274.692	---	12
13	---	---	---	---	275.085	274.844	274.681E	274.788E	274.934	274.839E	274.692E	---	13
14	---	---	---	---	275.070E	274.844E	274.692	274.783	274.934E	274.834E	274.692	---	14
15	---	---	---	---	275.054E	274.844	274.707E	274.788E	274.938	274.829	274.692E	---	15
16	---	---	---	---	275.039	274.838E	274.722	274.783	274.938E	274.829E	274.692E	---	16
17	---	---	---	---	275.038E	274.820	274.965	274.788E	274.938	274.829	274.692	---	17
18	---	---	---	---	275.039	274.826E	274.997	274.783	274.938E	274.820E	274.692E	---	18
19	---	---	---	---	275.018E	274.819E	274.997E	274.788E	274.938	274.810E	274.692E	---	19
20	---	---	---	---	274.994	274.814	274.997	274.814	274.938E	274.801E	274.692	---	20
21	---	---	---	---	274.994E	274.808E	275.004E	274.820E	274.938	274.782E	274.692E	---	21
22	---	---	274.735	---	274.994	274.802E	275.012E	274.844	274.930E	274.783	274.692E	---	22
23	---	---	---	---	274.988E	274.785E	275.018E	274.844E	274.925E	274.778E	274.692	---	23
24	---	---	---	---	275.004E	274.789E	275.027	274.844	274.920	274.773E	274.683	---	24
25	---	---	---	---	275.009	274.783	275.027E	274.875	274.915E	274.768	274.687E	---	25
26	---	---	---	---	274.983	274.783E	275.027	274.890E	274.910E	274.763E	274.692	---	26
27	---	---	---	---	274.963E	274.783E	275.018E	274.905	274.905	274.758E	---	---	27
28	---	---	---	---	274.983	274.783	275.004E	274.905E	---	274.753	---	---	28
29	---		---	---	274.954E	274.753E	274.992E	274.905	---	274.753E	---	---	29
30	---		---	---	274.945	274.722	274.981	274.905	---	274.753E	---	---	30
31	---		---		274.936		274.958E	274.905E		274.753		---	31
MEAN	---	---	---	---	---	274.825	274.835	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	274.928	275.027	---	---	---	---	---	MAX
MIN	---	---	---	---	---	274.722	274.631	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 54 53 10 N
LONG 100 01 50 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05OB015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0B	0 B	0 B	0.277B	0.881	0.002	0.023	0.294	0	0	0.001	0.0018	1
2	0B	0 B	0 B	0.461B	0.882	0.003	0.023	0.189	0	0.001	0.001	0.0018	2
3	0B	0 B	0 B	0.407B	0.851	0.002	0.022	0.179	0	0.001	0.001	0 B	3
4	0B	0 B	0 B	0.612B	0.505	0.001	0.017	0.154	0	0.002	0.001	0 B	4
5	0B	0 B	0.042B	0.525B	0.515	0.001	0.010	0.145	0	0.002	0.001	0 B	5
6	0B	0 B	0.284B	1.07 B	0.462	0.001	0.005	0.137	0	0.001	0.001	0 B	6
7	0B	0 B	0.220B	1.13 B	0.459	0.001	0.002	0.137	0	0.001	0.001	0 B	7
8	0B	0 B	0.482B	0.895B	0.436	0.001	0.001	0.112	0	0.001	0.001	0 B	8
9	0B	0 B	0.325B	0.644B	0.280	0.001	0.001	0.106	0	0.001	0.001	0 B	9
10	0B	0 B	0.166B	0.572B	0.210	0.001	0.001	0.087	0	0.002	0.001	0 B	10
11	0B	0 B	0.142B	0.566B	0.180	0.001	0.001	0.084	0	0.001	0.001	0 B	11
12	0B	0 B	0.443B	0.495B	0.143	0.001	0.225	0.073	0	0.002	0.001	0 B	12
13	0B	0 B	0.766B	0.484B	0.125	0.001	0.257	0.063	0	0.002	0.001	0 B	13
14	0B	0.0038	0.551B	0.532B	0.105	0.001	0.263	0.051	0	0.002	0.001	0 B	14
15	0B	0.0019	0.515B	0.487B	0.096	0.001	0.238	0.040	0.004	0.002	0.001	0 B	15
16	0B	0 B	0.188B	0.530B	0.078	0.001	0.231	0.034	0.003	0.002	0.001	0 B	16
17	0B	0 B	0.144B	0.521	0.067	0.001	0.232	0.031	0.001	0.002	0.001	0 B	17
18	0B	0 B	0.111B	0.536	0.066	0.001	0.212	0.022	0	0.001	0.002	0 B	18
19	0B	0 B	0.088B	0.592	0.064	0.001	0.211	0.016	0	0.002	0.002	0 B	19
20	0B	0 B	0.056B	0.617	0.058	0.001	0.201	0.013	0	0.002	0.002	0 B	20
21	0B	0 B	0.029B	0.630	0.054	0.001	0.213	0.010	0	0.002	0.0028	0 B	21
22	0B	0 B	0.008B	0.661	0.045	0.102	0.217	0.008	0	0.002	0.0028	0 B	22
23	0B	0 B	0.004B	0.756	0.039	0.011	0.211	0.013	0	0.002	0.0028	0 B	23
24	0B	0 B	0.080B	0.775	0.034	0.002	0.213	0.019	0	0.002	0.0018	0 B	24
25	0B	0 B	0.173B	0.868	0.027	0.007	0.222	0.006	0	0.002	0.0038	0 B	25
26	0B	0 B	0.077B	0.834	0.022	0.028	0.210	0.003	0	0.001	0.0048	0 B	26
27	0B	0 B	0.116B	0.807	0.018	0.031	0.211	0.001	0	0.001	0.0058	0 B	27
28	0B	0 B	0.197B	0.830	0.012	0.029	0.216	0.002	0	0.001	0.0058	0 B	28
29	0B		0.161B	0.847	0.006	0.027	0.210	0.003	0	0.001	0.0038	0 B	29
30	0B		0.283B	0.854	0.004	0.028	0.221	0.001	0	0.001	0.0038	0 B	30
31	0B		0.406B		0.004		0.212	0		0.001		0 B	31
TOTAL	0	0.004	6.449	20.035	6.520	0.288	4.532	1.844	0.008	0.049	0.052	0.002	TOTAL
MEAN	0	0	0.208	0.668	0.210	0.010	0.146	0.063	0	0.002	0.002	0	MEAN
MAX	0	0.003	0.551	1.13	0.881	0.102	0.257	0.294	0.004	0.003	0.006	0.001	MAX
MIN	0	0	0	0.377	0.004	0.001	0.001	0	0	0	0.001	0	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.108
MAXIMUM DAILY, 1.13B ON APR 7
MINIMUM DAILY, 0B ON JAN 1
MAXIMUM INSTANTANEOUS,
1.080 AT 10:55 CST ON APR 6

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 17 N
LONG 98 36 13 W
DRAINAGE AREA, 279 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	0	JUL	392
FEB	0.35	AUG	159
MAR	557	SEP	0.69
APR	1 730	OCT	4.23
MAY	553	NOV	4.49
JUN	25.0	DEC	0.17

TOTAL DISCHARGE, 3 440 dam³

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	5.20B	48.3B	78.8	23.8	7.40	6.51	6.18	12.4	---	---	1
2	---	---	5.62B	53.5B	78.7	22.1	7.61	6.25	5.80	11.7	---	---	2
3	---	---	6.08B	56.8B	78.5	20.7	7.61	5.94	5.38	10.8	---	---	3
4	---	---	6.61B	60.4B	78.3	17.8	7.84	5.64	5.42	10.2	---	---	4
5	---	---	5.80B	60.5B	78.4	13.6	7.31	5.63	6.34	8.87	---	---	5
6	---	---	6.45B	65.8B	75.6	10.1	6.84	5.35	7.58	8.77	---	---	6
7	---	---	6.89B	72.1B	74.6	7.73	6.59	5.05	8.61	7.76	---	---	7
8	---	---	6.93B	78.0B	73.9	6.51	6.20	4.85	8.84	6.50	---	---	8
9	---	---	7.12B	85.2B	73.5	5.32	6.35	4.77	10.2	6.33	---	---	9
10	---	---	7.93B	86.8B	72.4	5.01	6.40	4.67	13.4	4.67	---	---	10
11	---	---	8.40B	90.0	71.3	5.57	6.63	4.53	16.0	4.36	---	---	11
12	---	---	8.60B	91.4	71.6	6.85	5.77	4.39	17.7	4.39	---	---	12
13	---	---	8.90B	89.8	70.0	6.19	5.56	4.32	16.6	4.35	---	---	13
14	---	---	6.38B	87.2	69.7	8.28	5.38	4.21	18.5	3.87	---	---	14
15	---	---	7.99B	85.6	68.1	10.0	5.41	4.10	20.6	3.45	---	---	15
16	---	---	6.69B	84.7	65.9	9.65	5.42	4.07	19.9	2.87	---	---	16
17	---	---	6.68B	84.3	64.6	6.35	5.15	4.21	16.0	2.66	---	---	17
18	---	---	6.38B	84.3	63.6	6.31	5.20	4.39	14.9	2.64	---	---	18
19	---	---	11.5 B	84.4	62.6	6.30	5.16	4.66	13.0	2.66	---	---	19
20	---	---	15.5 B	84.7	61.5	6.81	5.09	5.32	11.4	2.67	---	---	20
21	---	---	19.4 B	84.7	59.6	9.35	4.82	5.53	10.3	2.41	---	---	21
22	---	---	23.8 B	84.2	57.6	9.80	4.79	5.34	9.94	2.07	---	---	22
23	---	---	27.7 B	83.6	55.2	8.67	6.01	4.56	9.65	1.88	---	---	23
24	---	---	30.3 B	83.0	52.5	7.81	5.56	2.74	10.4	1.72	---	---	24
25	---	---	32.1 B	82.1	49.6	7.86	5.86	5.12	11.6	4.63	---	---	25
26	---	---	33.3 B	80.9	47.5	7.72	5.89	5.57	12.0	3.99	---	---	26
27	---	---	33.7 B	78.9	44.6	7.86	6.06	5.71	13.1	4.38	---	---	27
28	---	---	33.7 B	80.0	41.3	7.75	6.28	5.89	13.1	6.34	---	---	28
29	---		33.4 B	79.8	36.9	7.42	6.46	6.00	12.6	6.95	---	---	29
30	---		33.7 B	78.6	31.4	7.49	6.68	5.82	12.9	10.6	---	---	30
31	---		36.0 B		26.8		6.48	6.07		11.2		---	31
TOTAL	---	---	498.66	2 354.6	1 960.4	288.57	188.04	157.27	363.73	187.04	---	---	TOTAL
MEAN	---	---	16.1	78.5	62.5	9.86	6.07	5.07	12.1	6.05	---	---	MEAN
MAX	---	---	36.0	91.4	78.8	23.8	7.81	6.51	20.6	12.4	---	---	MAX
MIN	---	---	5.20	48.3	26.8	5.01	4.79	2.74	5.38	1.72	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 24.6
MAXIMUM DAILY, 91.4 ON APR 12
MINIMUM DAILY, 1.72 ON OCT 24
MAXIMUM INSTANTANEOUS,
91.8 AT 13:16 CST ON APR 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 37 10 N
LONG 100 15 00 W
DRAINAGE AREA, 58 900 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	16 200
FEB	---	AUG	13 600
MAR	43 100	SEP	31 400
APR	203 000	OCT	16 200
MAY	168 000	NOV	---
JUN	25 600	DEC	---

TOTAL DISCHARGE, 517 000 dam³

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.100	2.270	2.360	81.70	82.8	29.7	7.38	6.43	6.40	13.9	11.2	2.38 B	1
2	1.980	2.570	2.600	110 B	83.2	27.0	7.20	6.26	6.67	13.0	12.3	2.25 B	2
3	1.960	2.700	3.660	115 B	82.8	25.1	7.47	6.28	5.87	12.1	13.8	2.09 B	3
4	2.140	2.280	9.330	100 B	82.4	23.6	7.48	5.92	5.65	11.3	13.4	1.87 B	4
5	1.930	2.340	8.390	107 B	81.9	20.5	7.32	5.68	5.61	10.5	12.2	1.65 B	5
6	1.700	2.560	7.760	97.90	80.5	16.0	7.18	5.83	5.92	10.0	10.3	1.58 B	6
7	1.850	2.670	3.350	100 B	76.8	12.1	6.86	5.28	7.13	9.47	8.70	1.57 B	7
8	1.820	3.010	4.480	119 B	76.0	9.61	6.45	4.83	8.19	8.63	8.02	1.56 B	8
9	1.530	2.860	5.590	121 B	76.1	8.21	6.07	4.70	8.93	7.77	7.49	1.60 B	9
10	1.520	2.570	10.2 B	121 B	76.3	7.14	6.20	4.48	9.22	6.58	6.63	1.67 B	10
11	1.450	2.370	7.880	111 B	74.2	8.17	6.89	4.35	11.6	5.59	5.58	1.62 B	11
12	1.880	2.200	7.070	90.1	75.6	6.16	5.85	4.21	14.6	4.97	4.84	1.61 B	12
13	1.670	2.410	8.160	88.3	76.2	7.06	5.97	4.07	16.5	4.75	4.55	1.46 B	13
14	1.600	2.780	8.510	86.4	73.3	8.54	5.83	4.04	17.7	4.72	4.31	1.39 B	14
15	1.610	3.070	6.960	82.0	73.3	9.69	6.51	3.99	20.0	4.60	4.63	1.35 B	15
16	1.700	2.120	5.880	80.0	71.2	10.4	7.24	4.02	20.0	4.24	4.52	1.30 B	16
17	1.860	2.020	4.010	88.5	69.0	10.4	6.15	3.88	18.5	3.87	4.04	1.25 B	17
18	2.090	2.580	4.690	87.7	67.7	9.77	5.68	3.90	17.8	3.28	3.98	1.19 B	18
19	1.600	2.350	5.180	87.4	67.9	9.08	6.24	3.84	15.4	2.95	4.69	1.14 B	19
20	1.670	2.200	4.900	87.5	66.2	6.78	5.22	4.08	13.4	2.90	5.37	1.08 B	20
21	1.590	2.100	6.980	88.1	64.7	6.59	5.06	4.55	11.9	2.80	5.75	0.831 B	21
22	1.610	1.980	9.490	88.0	62.9	9.84	4.99	5.30	10.7	2.88	5.05 B	0.795 B	22
23	1.510	1.880	14.5 B	87.8	60.3	10.0	4.65	5.38	10.1	2.76	3.66 B	0.710 B	23
24	1.640	1.640	18.2 B	87.3	57.8	9.28	4.78	5.28	9.81	2.56	4.65 B	0.655 B	24
25	1.630	1.880	23.1 B	85.7	54.9	8.32	5.00	4.21	10.0	2.32	3.41 B	0.609 B	25
26	2.100	1.860	25.3 B	85.8	52.4	7.69	6.23	2.92	10.6	2.15	2.81 B	0.596 B	26
27	2.120	2.020	28.3 B	84.8	48.9	7.50	5.62	4.88	11.8	3.83	2.76 B	0.613 B	27
28	2.060	2.110	30.7 B	84.8	48.7	7.61	5.79	5.38	12.6	5.44	2.63 B	0.614 B	28
29	2.030		32.5 B	84.6	43.1	7.88	5.83	5.85	12.8	9.14	2.17 B	0.618 B	29
30	2.150		36.5 B	84.0	38.8	7.75	5.50	6.00	13.5	9.87	2.37 B	0.618 B	30
31	2.180		72.5 B		34.1		6.74	5.90		10.5		0.620 B	31
TOTAL	55.90	67.57	425.20	2 877.5	2 078.8	348.88	186.25	152.59	349.80	199.56	186.61	38.957	TOTAL
MEAN	1.81	2.41	13.7	95.9	67.1	11.7	6.07	4.92	11.7	6.44	6.22	1.26	MEAN
MAX	2.19	3.12	72.5	121	83.6	29.7	7.48	6.48	20.0	13.9	13.8	2.38	MAX
MIN	1.45	1.64	2.26	81.7	34.1	6.17	4.65	2.92	5.61	2.15	2.17	0.596	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 19.1
MAXIMUM DAILY, 121B ON APR 9
MINIMUM DAILY, 0.596B ON DEC 26
MAXIMUM INSTANTANEOUS,
1420 AT 20:17 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 05 N
LONG 99 40 55 W
DRAINAGE AREA, 59 300 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 840	JUL	16 300
FEB	5 840	AUG	13 200
MAR	36 800	SEP	30 200
APR	249 000	OCT	17 300
MAY	180 000	NOV	16 100
JUN	30 200	DEC	3 370

TOTAL DISCHARGE, 603 000 dam³

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.880	1.600	5.780	46.50	71.9	15.1	5.81	5.29	6.53	10.7	11.6	1.65 B	1
2	1.680	1.670	5.000	49.80	71.6	7.75	5.67	5.40	9.44	9.87	7.17	1.51 B	2
3	1.690	1.660	5.670	50.30	72.4	2.87	5.89	5.03	10.9	8.65	8.21	1.37 B	3
4	1.720	1.680	5.950	51.00	75.5	1.60	5.34	4.80	11.3	6.77	7.26	1.33 B	4
5	1.710	1.760	6.310	54.10	74.9	1.81	5.51	4.39	11.4	4.38	4.37	1.27 B	5
6	1.730	1.770	6.120	57.60	70.5	2.11	5.57	4.44	11.6	2.76	3.01	1.24 B	6
7	1.720	1.8[illegible]	6.300	65.10	68.8	2.98	5.64	4.04	16.9	3.54	3.46	1.28 B	7
8	1.700	1.90[illegible]	6.010	70.00	66.3	2.75	5.55	3.60	18.9	4.09	3.06	1.23 B	8
9	1.700	2.000	7.880	71.6	58.2	5.49	5.99	3.67	18.9	4.63	3.25	1.13 B	9
10	1.680	2.030	7.910	71.6	66.9	7.04	5.72	2.28	20.0	3.52	4.09	1.15 B	10
11	1.650	2.040	8.090	72.1	61.6	8.11	5.77	2.15	20.1	1.80	2.87	1.09 B	11
12	1.670	1.980	8.420	70.9	56.6A	10.2	5.37	2.33	19.9	1.36	3.41	1.03 B	12
13	1.710	1.820	8.880	70.1	55.6A	8.80	5.31	3.70	18.1	2.23	4.44	0.970 B	13
14	1.680	1.790	9.410	71.0	55.7E	7.83	5.82	4.12	14.9	2.74	4.63	0.919 B	14
15	1.690	1.680	15.3 B	72.0	54.7A	8.89	5.93	4.27	11.6	2.03	4.26	0.823 B	15
16	1.680	2.200	19.0 B	72.6	52.9E	7.29	5.82	6.17	10.8	1.06	4.68	0.744 B	16
17	1.640	4.080	21.7 B	73.6	51.1E	8.28	5.68	5.60	9.97	0.548	4.14	0.681 B	17
18	1.520	4.580	25.8 B	73.4	48.2A	8.46	5.93	5.03	9.70	0.384	2.63	0.654 B	18
19	1.580	4.690	28.5 B	72.2	45.5	8.07	6.27	4.74	9.31	0.336	2.16	0.665 B	19
20	1.580	4.720	30.4 B	72.2	43.9	6.17	6.72	5.61	9.32	0.375	1.77	0.556 B	20
21	1.660	4.710	31.7 B	70.9	41.9	6.36	6.86	5.74	11.3	0.574	1.24 B	0.634 B	21
22	1.650	4.760	32.5 B	70.3	39.6	6.29	6.87	6.00	12.9	6.73	1.74 B	0.594 B	22
23	1.640	4.050	33.1 B	70.2	37.9	6.64	6.74	6.20	13.8	11.8	2.02 B	0.598 B	23
24	1.630	5.280	33.6 B	70.5	34.8	6.50	6.84	6.17	13.9	12.4	2.05 B	0.594 B	24
25	1.490	5.340	34.1 B	71.4	31.9	6.78	7.22	6.37	16.0	11.7	1.61 B	0.580 B	25
26	1.470	5.410	35.6 B	71.7	28.8	6.13	7.00	6.44	16.1	12.4	1.30 B	0.562 B	26
27	1.500	5.610	37.3 B	71.2	23.6	5.94	7.38	6.48	13.9	12.9	1.33 B	0.539 B	27
28	1.500	5.620	38.5 B	72.0	20.1	6.18	7.15	6.22	12.9	13.6	1.60 B	0.533 B	28
29	1.570		38.6 B	71.9	19.1	6.31	6.78	6.21	11.9	16.0	1.75 B	0.547 B	29
30	1.500		40.7 B	73.0	18.8	6.43	5.83	6.31	11.1	16.8	1.68 B	0.547 B	30
31	1.630		44.0 B		18.8		5.34	6.35		14.9		0.531 B	31
TOTAL	49.99	89.29	646.00	2 022.6	1 553.3	193.22	188.99	158.10	401.41	202.626	103.80	27.672	TOTAL
MEAN	1.61	3.19	20.8	67.4	50.1	6.44	6.10	5.10	13.4	6.54	3.46	0.893	MEAN
MAX	1.73	5.63	44.0	73.6	75.5	15.1	7.60	6.48	20.1	16.8	11.6	1.65	MAX
MIN	1.47	1.60	5.78	46.5	18.8	1.60	5.24	2.15	6.53	0.336	1.24	0.531	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.4
MAXIMUM DAILY, 75.5 ON MAY 4
MINIMUM DAILY, 0.336 ON OCT 19
MAXIMUM INSTANTANEOUS,
76.4 AT 12:21 CST ON MAY 4

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 05 27 N
LONG 100 57 12 W
DRAINAGE AREA, 43 300 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 320	JUL	16 300
FEB	7 720	AUG	13 700
MAR	55 800	SEP	34 700
APR	175 000	OCT	17 500
MAY	134 000	NOV	8 970
JUN	16 700	DEC	2 390

TOTAL DISCHARGE, 487 000 dam³

SOURIS RIVER NEAR LAUDER - STATION NO. 05NE025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	4.508	43.58	76.4	21.0	7.62	5.46	5.49	10.8	---	---	1
2	---	---	4.529	46.78	76.1	19.6	7.76	5.25	5.42	10.2	---	---	2
3	---	---	4.608	50.28	75.5	16.3	7.81	5.31	6.06	9.62	---	---	3
4	---	---	4.708	52.79	74.0	11.8	7.50	5.09	7.42	8.98	---	---	4
5	---	---	4.808	55.38	72.4	8.37	7.01	4.87	8.42	7.98	---	---	5
6	---	---	5.008	56.28	71.2	6.49	6.73	4.59	9.13	5.73	---	---	6
7	---	---	5.308	58.28	69.4	5.29	6.68	4.26	9.90	5.33	---	---	7
8	---	---	5.608	64.08	68.4	4.10	6.57	4.14	12.5	4.31	---	---	8
9	---	---	6.008	82.18	67.7	4.93	6.48	4.00	15.4	4.05	---	---	9
10	---	---	6.508	90.4	67.4	6.16	6.58	3.79	16.8	4.2.	---	---	10
11	---	---	7.008	90.6	66.1	8.04	6.29	3.68	17.5	4.50	---	---	11
12	---	---	7.808	87.4	65.2	9.28	6.09	3.67	18.1	4.12	---	---	12
13	---	---	9.008	83.5	65.6	10.5	6.01	3.42	18.5	3.37	---	---	13
14	---	---	10.3 B	81.6	62.8	10.6	5.99	3.43	18.6	2.68	---	---	14
15	---	---	12.0 B	81.2	61.2	9.87	5.83	3.50	17.9	2.39	---	---	15
16	---	---	14.0 B	80.3	59.8	9.06	5.68	3.57	15.7	2.52	---	---	16
17	---	---	17.0 B	80.5	58.9	8.74	5.75	3.80	13.8	2.61	---	---	17
18	---	---	19.0 B	80.6	58.3	9.23	5.89	4.65	12.1	2.43	---	---	18
19	---	---	21.0 B	81.3	57.5	9.71	5.46	5.06	10.7	1.89	---	---	19
20	---	---	23.0 B	81.3	56.7	9.83	5.28	4.81	10.1	1.41	---	---	20
21	---	---	24.4 B	81.1	53.7	9.14	5.61	4.74	9.80	1.02	---	---	21
22	---	---	25.8 B	80.0	51.5	8.66	5.75	4.93	10.0	0.773	---	---	22
23	---	---	27.3 B	78.8	49.2	8.08	6.05	5.16	11.0	0.500	---	---	23
24	---	---	28.8 B	77.4	47.1	8.19	6.22	5.26	12.0	2.73	---	---	24
25	---	---	30.1 B	76.5	44.5	8.21	6.18	5.46	12.5	7.93	---	---	25
26	---	---	31.2 B	75.1	41.7	8.19	6.22	5.52	12.7	9.24	---	---	26
27	---	---	32.5 B	75.9	38.3	7.78	6.41	5.65	12.7	9.64	---	---	27
28	---	---	34.5 B	75.6	33.6	7.40	6.32	5.72	12.5	10.3	---	---	28
29	---		36.7 B	75.6	28.3	7.31	6.18	5.80	11.9	10.8	---	---	29
30	---		39.2 B	76.3	24.4	7.87	6.28	5.63	11.4	11.5	---	---	30
31	---		41.1 B		22.2		6.06	5.58		12.6		---	31
TOTAL	---	---	543.72	2 201.5	1 765.5	279.90	198.40	145.80	385.84	177.233	---	---	TOTAL
MEAN	---	---	17.5	73.4	57.0	9.33	6.36	4.70	12.2	5.72	---	---	MEAN
MAX	---	---	41.1	90.6	76.4	21.0	7.81	5.80	18.6	12.6	---	---	MAX
MIN	---	---	4.50	43.5	22.2	4.10	5.28	3.42	5.42	0.500	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 23.2
MAXIMUM DAILY, 90.6 ON APR 11
MINIMUM DAILY, 0.500 ON OCT 23
MAXIMUM INSTANTANEOUS,
91.1 AT 05 15 CST ON APR 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 24 00 N
LONG 100 45 37 W

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	17 000
FEB	---	AUG	12 500
MAR	67 000	SEP	31 500
APR	190 000	OCT	15 300
MAY	153 000	NOV	---
JUN	24 200	DEC	---

TOTAL DISCHARGE, 491 000 dam³

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05MF012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.678	1.648	5.958	48.18	70.5	8.33	5.47	5.95	7.62	7.82	7.14	1.84 B	1
2	1.678	1.648	5.958	49.38	69.9	2.41	5.75	5.47	8.20	7.31	3.82	1.81 B	2
3	1.678	1.648	5.858	52.18	69.1	2.38	5.58	5.30	8.12	6.23	6.82	1.56 B	3
4	1.678	1.648	5.858	53.68	66.8	2.41	5.01	5.21	8.00	4.81	6.31	1.53 B	4
5	1.678	1.648	5.238	55.68	67.4	3.17	5.47	4.53	8.92	2.41	3.31	1.47 B	5
6	1.678	1.648	5.808	60.38	66.5	3.57	5.58	5.21	11.0	3.00	3.23	1.39 B	6
7	1.678	1.648	5.808	64.08	64.6	5.01	5.21	3.89	16.6	3.31	3.57	1.30 B	7
8	1.678	1.648	5.808	65.08	63.1	5.68	5.21	3.89	17.6	3.99	2.01	1.22 B	8
9	1.678	1.648	6.808	64.88	63.4	8.27	5.30	4.45	18.2	4.08	3.82	1.13 B	9
10	1.678	1.648	6.808	70.88	62.3	7.98	5.58	3.65	18.2	2.27	4.84	1.05 B	10
11	1.678	1.648	7.088	73.2	60.3	9.85	5.01	3.98	17.6	1.02	3.85	1.05 B	11
12	1.678	1.648	7.368	76.3	58.3	9.40	5.01	4.28	17.4	1.30	2.27	1.05 B	12
13	1.678	1.648	7.368	76.2	7.2	7.82	5.01	4.53	14.6	2.21	3.98	1.05 B	13
14	1.678	1.648	8.068	76.5	56.1	7.50	5.30	5.10	10.2	2.32	4.53	0.9818	14
15	1.678	1.648	20.7 B	76.5	54.7	6.57	5.01	5.58	8.28	1.50	4.45	0.9638	15
16	1.678	3.238	24.1 B	76.2	53.0	8.47	5.01	6.77	8.12	0.638	5.30	0.8508	16
17	1.678	4.938	27.8 B	75.8	51.0	7.50	5.10	8.21	8.00	0.256	4.08	0.7938	17
18	1.678	4.938	32.0 B	74.2	48.7	8.72	5.47	5.10	8.64	0.198	2.85	0.7368	18
19	1.678	4.938	34.0 B	73.3	44.2	8.57	5.85	5.21	8.64	0.139	2.48	0.8518	19
20	1.678	4.938	35.1 B	72.8	40.2	5.85	6.23	5.14	8.20	0.227	1.81	0.5688	20
21	1.678	4.938	35.4 B	71.8	38.2	6.31	6.23	5.03	10.8	1.70	1.708	0.5688	21
22	1.678	4.938	35.7 B	71.1	36.7	8.77	6.23	5.14	11.0	8.12	1.708	0.5688	22
23	1.648	5.528	35.7 B	70.2	33.4	7.05	6.03	5.23	11.2	10.2	1.708	0.5688	23
24	1.648	5.958	35.4 B	68.9	28.6	7.22	5.40	5.23	11.1	8.47	1.708	0.5688	24
25	1.648	5.958	35.7 B	70.2	25.4	6.57	5.94	5.31	10.9	8.55	1.708	0.5688	25
26	1.648	5.958	37.4 B	70.8	20.2	5.14	5.94	5.31	10.8	9.68	1.708	0.5688	26
27	1.648	5.958	38.5 B	70.5	17.2	6.23	6.57	6.31	10.5	10.2	1.708	0.5688	27
28	1.648	5.958	38.6 B	71.6	15.8	6.40	5.40	6.23	8.12	9.49	1.708	0.5688	28
29	1.648		38.1 B	71.1	15.3	8.23	5.85	6.03	8.72	11.9	1.708	0.5688	29
30	1.648		39.8 B	70.8	15.1	5.75	5.10	5.14	8.18	10.8	1.708	0.5688	30
31	1.648		44.2 B		13.8		5.10	5.03		9.20		0.5688	31
TOTAL	51.80	92.68	884.39	2 067.8	1 443.8	192.39	175.15	167.65	341.47	154.250	95.87	28.828	TOTAL
MEAN	1.68	3.31	22.1	68.3	46.6	6.41	5.65	5.41	11.4	4.98	3.23	0.930	MEAN
MAX	1.67	5.96	44.2	76.5	70.5	9.85	6.94	6.77	18.2	11.9	7.14	1.84	MAX
MIN	1.64	1.64	5.85	48.1	13.8	2.38	5.01	3.65	7.62	0.139	1.70	0.568	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.0
MAXIMUM DAILY, 76.5 ON APR 14
MINIMUM DAILY, 0.139 ON OCT 19
MAXIMUM INSTANTANEOUS,
76.6 ON APR 13

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 47 N
LONG 100 57 29 W
DRAINAGE AREA, 43 000 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 650	JUL	15 100
FEB	8 910	AUG	14 500
MAR	55 100	SEP	25 500
APR	177 000	OCT	13 500
MAY	125 000	NOV	8 370
JUN	16 800	DEC	3 490

TOTAL DISCHARGE, 473 000 dam³

SOUTH MOOSE LAKE AT MOOSE LAKE NARROWS CONTROL STRUCTURE - STATION NO. OSKKOOS

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	256.001	255.997	255.971	255.929	255.907	255.986	255.933	256.004	256.077	256.174	256.113	256.184	1
2	256.001	255.996	255.971	255.926	255.909	255.987	255.934	256.018	256.075	256.172	256.110	256.180	2
3	256.001	255.995	255.969	255.920	255.915	255.969	255.942	256.021	256.084	256.163	256.103	256.180	3
4	256.005	255.993	255.968	255.917	255.918	255.975	255.928	256.026	256.073	256.159	256.125	256.183	4
5	256.005	255.994	255.963	255.916	255.922	255.979	255.945	256.026	256.069	256.165	256.141	256.187A	5
6	256.004	255.994	255.963	255.912	255.928	255.971	255.939	256.025	256.075	256.165	256.120	---	6
7	256.004	255.992	255.973	255.912	255.930	255.980	255.918	256.040	256.077	256.173	256.104	---	7
8	256.007	255.991	255.976	255.908	255.935	255.979	255.921	256.030	256.086	256.169	256.129	---	8
9	256.004	255.992	255.975	255.901	255.936	255.970	255.923	256.031	256.080	256.158	256.136	---	9
10	256.001	255.990	255.975	255.896	255.936	255.973	255.917	256.033	256.092	256.169	256.130	---	10
11	256.001	255.989	255.974	255.900	255.952	255.972	255.936	256.032	256.126	256.159	256.144	---	11
12	256.002	255.986	255.975	255.900	255.955	255.972	255.956	256.030	256.130	256.167	256.143	---	12
13	255.999	255.985	255.975	255.897	255.951	255.970	255.962	256.045	256.131	256.165	256.146	---	13
14	255.998	255.983	255.971	255.897	255.945	255.968	255.956	256.032	256.130	256.160	256.137	---	14
15	256.000	255.984	255.971	255.895	255.968	255.967	255.961	256.040	256.128	256.159	256.138	---	15
16	255.998	255.981	255.968	255.892	255.971	255.966	255.990	256.028	256.117	256.160	256.141	---	16
17	255.997	255.978	255.964	255.891	255.970	255.963	256.000	256.038	256.134	256.150	256.144	---	17
18	255.993	255.976	255.961	255.890	255.977	255.959	255.994	256.034	256.139	256.154	256.147	---	18
19	256.000	255.976	255.960	255.886	255.979	255.965	255.998	256.048	256.140	256.151	256.149	---	19
20	256.000	255.978	255.958	255.885	255.984	255.984	255.996	256.032	256.131	256.145	256.153	---	20
21	256.001	255.979	255.955	255.884	255.981	255.971	255.990	256.035	256.135	256.151	256.154	---	21
22	255.998	255.981	255.951	255.883	255.987	255.959	256.004	256.048	256.150	256.148	256.155	---	22
23	255.995	255.978	255.950	255.883	255.992	255.963	255.998	256.049	256.151	256.149	256.160	---	23
24	255.995	255.975	255.953	255.882	255.995	255.959	256.004	256.051	256.150	256.148	256.163	---	24
25	255.993	255.976	255.954	255.885	256.003	255.962	255.998	256.058	256.152	256.143	256.164	---	25
26	255.995	255.972	255.950	255.891	255.999	255.962	256.001	256.060	256.158	256.138	256.164	---	26
27	255.995	255.970	255.949	255.901	256.000	255.959	256.006	256.058	256.161	256.129	256.161	---	27
28	255.997	255.970	255.945	255.902	255.999	255.954	255.994	256.061	256.160	256.124	256.159	---	28
29	255.994		255.942	255.903	255.982	255.953	255.986	256.062	256.170	256.133	256.155	---	29
30	255.998		255.938	255.906	255.986	255.937	255.997	256.070	256.170	256.129	256.167	---	30
31	256.000		255.931		255.989		256.008	256.070		256.131		---	31
MEAN	256.000	255.984	255.961	255.900	255.962	255.983	255.989	256.041	256.124	256.154	256.142	---	MEAN
MAX	256.007	255.997	255.976	255.929	256.003	255.986	256.008	256.070	256.170	256.174	256.187	---	MAX
MIN	255.993	255.970	255.931	255.882	255.907	255.937	255.917	256.004	256.069	256.124	256.103	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 256.174 ON OCT 1
MINIMUM DAILY, 255.882 ON APR 24
MAXIMUM INSTANTANEOUS,
256.186 AT 23:10 CST ON OCT 4

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 57 00 N
LONG 100 10 00 W

A - MANUAL GAUGE

REGULATED SINCE 1964

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 05GA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	24.88	20.78	16.58	13.58	11.78	---	238	131	181	353	188	82.78	1
2	24.48	20.78	16.58	13.58	11.78	---	231	125	185	344	180	80.48	2
3	24.48	20.38	16.28	13.58	11.78	---	218	124	187	337	178	78.78	3
4	24.48	20.38	15.88	13.58	11.78	---	207	125	253	328	175	77.48	4
5	24.48	20.08	15.88	13.58	11.78	---	203	122	309	321	173	75.88	5
6	24.48	20.08	15.88	13.48	11.48	---	195	118	351	314	168	74.58	6
7	24.48	20.08	15.88	13.48	11.48	---	182	116	376	308	163 B	73.08	7
8	24.48	20.08	15.88	13.48	11.48	---	189	112	395	301	157 B	71.68	8
9	24.48	19.28	15.88	13.48	11.48	---	183	108	416	293	151 B	70.18	9
10	23.98	19.28	15.48	13.48	11.48	---	181	105	424	288	147 B	68.88	10
11	23.88	19.28	15.48	13.48	11.48	---	174	104	427	280	140 B	67.58	11
12	23.58	18.88	15.48	13.38	11.08	---	169	100	424	274	135 B	66.28	12
13	23.58	18.88	15.48	13.28	11.08	---	165	96.5	417	268	131 B	65.68	13
14	23.18	18.48	15.48	12.88	11.08	---	158	97.7	409	259	128 B	64.48	14
15	23.18	18.48	15.08	12.88	11.08	---	149	92.8	396	254	123 B	63.88	15
16	23.18	18.48	15.08	12.68	11.08	---	145	91.1	387	251	121 B	62.68	16
17	23.18	18.48	15.08	12.48	11.08	---	143	90.9	375	248	116 B	62.08	17
18	23.18	18.48	14.68	12.48	11.08	---	142	89.7	365	239	114 B	60.88	18
19	23.18	18.18	14.68	12.48	11.08	---	143	91.0	361	238	110 B	60.28	19
20	22.78	17.78	14.68	12.48	11.08	---	145	97.8	358	231	107 B	59.88	20
21	22.78	17.78	14.38	12.48	11.08	---	148	112	370	226	105 B	58.48	21
22	22.38	17.38	14.38	12.08	11.48	---	144	123	378	219	102 B	57.88	22
23	22.38	17.38	14.38	12.48	11.78	---	142	138	381	217	99.88	57.28	23
24	21.98	16.98	13.98	12.18	12.18	---	141	150	384	212	97.48	56.88	24
25	21.58	16.98	13.98	12.18	12.88	---	139	160	385	208	94.38	56.08	25
26	21.58	16.98	13.98	12.18	15.58	---	137	163	381	205	92.08	55.48	26
27	21.58	16.98	13.98	11.78	28.88	---	133	163	378	202	89.68	54.88	27
28	21.58	16.98	13.88	11.78	41.88	270A	133	163	372	200	88.18	53.88	28
29	21.18		13.88	11.78	54.88	266	132	159	367	198	85.78	53.08	29
30	21.18		13.88	11.78	77.48	263	133	154	362	195	84.38	52.48	30
31	20.78		13.88		86.28		134	156		191		52.48	31
TOTAL	714.1	521.8	483.9	382.2	603.2	---	5 080	3 783.4	10 722	7 998	3 842.1	1 994.3	TOTAL
MEAN	23.0	18.6	15.6	12.7	19.5	---	164	122	357	258	128	64.3	MEAN
MAX	24.8	20.7	16.5	13.6	86.2	---	238	163	427	353	188	82.7	MAX
MIN	20.7	16.9	13.8	11.7	11.0	---	132	89.7	181	191	84.2	53.4	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 11.08 ON MAY 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 06 35 N
LONG 96 13 40 W
DRAINAGE AREA, 12 200 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	61 700	JUL	438 000
FEB	45 100	AUG	327 000
MAR	40 100	SEP	926 000
APR	33 000	OCT	691 000
MAY	52 100	NOV	332 000
JUN	---	DEC	172 000

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05DF017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.843	0.031E	0.022	0.022	0	0	0	---	---	1
2	---	---	0 B	0.327	0.026A	0.020	0.018	0	0	0	---	---	2
3	---	---	0 B	0.529	0.026A	0.017	0.023	0	0	0	---	---	3
4	---	---	0 B	1.71	0.025E	0.016	0.014	0	0	0	---	---	4
5	---	---	0.0028	2.45	0.024E	0.016	0.010	0	0	0	---	---	5
6	---	---	0.0208	4.10	0.024E	0.015	0.007	0	0	0	---	---	6
7	---	---	0.0108	4.46	0.023E	0.013	0.003	0	0	0	---	---	7
8	---	---	0.0038	3.91	0.022E	0.012	0	0	0	0	---	---	8
9	---	---	0.0038	2.59	0.021E	0.012	0	0	0	0	---	---	9
10	---	---	0.0108	1.33	0.021A	0.009	0	0	0	0	---	---	10
11	---	---	0.0508	0.776	0.020	0.010	0	0	0	0	---	---	11
12	---	---	0.2008	0.463	0.032	0.005	0	0	0	0	---	---	12
13	---	---	0.5008	0.092	0.108	0.003	0	0	0	0	---	---	13
14	---	---	0.188A	0.037	0.070	0.004	0	0	0	0	---	---	14
15	---	---	0.172E	0.022	0.051	0.004	0	0	0	0	---	---	15
16	---	---	0.157	0.009	0.039	0.001	0	0	0	0	---	---	16
17	---	---	0.115E	0.020	0.037	0	0	0	0	0	---	---	17
18	---	---	0.075E	0.056	0.034	0	0	0	0	0	---	---	18
19	---	---	0.030E	0.133	0.032	0	0	0	0	0	---	---	19
20	---	---	0.010E	0.407	0.033	0	0	0	0	0	---	---	20
21	---	---	0.005E	0.322	0.033	0	0	0	0	0	---	---	21
22	---	---	0.005E	0.262	0.030	0.550	0	0	0	0	---	---	22
23	---	---	0.005E	0.182	0.026	0.210	0	0	0	0	---	---	23
24	---	---	0.005E	0.132	0.026	0.062	0	0	0	0	---	---	24
25	---	---	0.121	0.089	0.025	0.200	0	0	0	0	---	---	25
26	---	---	0.359	0.077	0.025	0.134	0	0	0	0	---	---	26
27	---	---	0.285	0.064	0.024	0.063	0	0	0	0	---	---	27
28	---	---	0.736	0.053E	0.021	0.024	0	0	0	0	---	---	28
29	---		3.28	0.041E	0.018	0.014	0	0	0	0	---	---	29
30	---		3.17	0.035E	0.018	0.026	0	0	0	0	---	---	30
31	---		3.50		0.022		0			0		---	31
TOTAL	---	---	13.088	25.223	0.988	1.442	0.097	0	0	0	---	---	TOTAL
MEAN	---	---	0.421	0.841	0.031	0.048	0.003	0	0	0	---	---	MEAN
MAX	---	---	3.50	4.46	0.108	0.550	0.023	0	0	0	---	---	MAX
MIN	---	---	0	0.009	0.018	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.187
MAXIMUM DAILY, 4.46 ON APR 7
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
11.2 AT 20:57 CST ON MAR 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 22 50 N
LONG 98 14 55 W
DRAINAGE AREA, 73.3 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	8.38
FEB	---	AUG	0
MAR	1 130	SEP	0
APR	2 180	OCT	0
MAY	83.6	NOV	---
JUN	125	DEC	---

TOTAL DISCHARGE, 3 530 dam³

SOUTHERN INDIAN LAKE AT SOUTH BAY - STATION NO. 05EC003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	257.137	256.984	257.006	257.123	---	---	256.082	256.086	256.034	256.188	256.101	256.141	1
2	257.131	256.974	257.011	257.131	---	---	256.085	256.104	256.039	256.226	256.078	256.126	2
3	257.130	256.969	257.017	257.135	---	---	256.080	256.097	256.127	256.196	256.041	256.132	3
4	257.128	256.966	257.023	257.139	---	---	256.077	256.087	256.122	256.187	256.071	256.127	4
5	257.124	256.956	257.034	257.135	---	---	256.088	256.085	256.125	256.181	256.089	256.122	5
6	257.119	256.950	257.045	257.138	---	---	256.085	256.085	256.141	256.184	256.118	256.123	6
7	257.101	256.937	257.060	257.144	---	---	256.084	256.093	256.131	256.184	256.128	256.110	7
8	257.088	256.934	257.062	257.148	---	---	256.081	256.090	256.155	256.168	256.141	256.115	8
9	257.080	256.935	257.059	257.147	---	---	256.049	256.078	256.169	256.135	256.121	256.118	9
10	257.070	256.868	257.055	257.145	---	---	256.049	256.105	256.192	256.130	256.118	256.123	10
11	257.061	256.870	257.064	257.151	---	---	256.088	256.078	256.178	256.135	256.105	256.122	11
12	257.057	256.880	257.085	257.142	---	---	256.063	256.084	256.163	256.103	256.102	256.122	12
13	257.048	256.887	257.089	257.139	---	---	256.035	256.063	256.169	256.105	256.122	256.122	13
14	257.052	256.888	257.071	257.144	---	---	256.064	256.051	256.182	256.123	256.129	256.116	14
15	257.049	256.892	257.084	257.151	---	---	256.084	256.063	256.183	256.101	256.104	256.112	15
16	257.043	256.883	257.082	257.150	---	---	256.070	256.042	256.170	256.098	256.087	256.114	16
17	257.036	256.881	257.087	257.153	---	257.888A	256.070	256.046	256.185	256.120	256.112	256.115	17
18	257.030	256.884	257.090	257.150	---	256.005	256.078	256.049	256.255	256.085	256.131	256.114	18
19	257.027	256.885	257.085	257.152	---	256.003	256.084	256.070	256.315	256.074	256.140	256.112	19
20	257.024	256.884	257.070	257.157	---	256.026	256.088	256.081	256.327	256.067	256.150	256.108	20
21	257.028	256.895	257.076	257.157	---	256.048	256.085	256.041	256.322	256.088	256.159	256.087	21
22	257.028	256.895	257.082	257.178	---	256.053	256.101	256.070	256.289	256.068	256.155	256.087	22
23	257.018	256.895	257.084	257.181	---	256.038	256.084	256.085	256.254	256.068	256.151	256.092	23
24	257.008	256.885	257.085	257.178	---	256.049	256.085	256.048	256.265	256.080	256.158	256.082	24
25	256.993	256.888	257.097	257.178	---	256.072	256.085	256.048	256.252	256.078	256.165	256.085	25
26	256.990	257.000	257.104	257.189	---	256.059	256.107	256.053	256.241	256.072	256.161	256.084	26
27	256.993	257.003	257.104	---	---	256.059	256.105	256.048	256.244	256.081	256.156	256.083	27
28	257.005	257.002	257.115	---	---	256.059	256.139	256.035	256.245	256.080	256.157	256.078	28
29	257.008		257.118	---	---	256.063	256.130	256.044	256.204	256.085	256.157	256.078	29
30	256.993		257.126	---	---	256.074	256.110	256.034	256.187	256.078	256.150	256.077	30
31	256.990		257.131		---		256.106	256.041		256.080		256.072	31
MEAN	257.082	256.931	257.088	---	---	---	256.080	256.068	256.198	256.117	256.120	256.107	MEAN
MAX	257.137	257.003	257.126	---	---	---	256.130	256.105	256.327	256.226	256.186	256.141	MAX
MIN	256.990	256.867	257.006	---	---	---	256.049	256.034	256.034	256.068	256.041	256.072	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 258.327 ON SEP 20
MINIMUM DAILY, 256.867 ON FEB 7
MAXIMUM INSTANTANEOUS,
258.336 AT 00:00 CST ON SEP 21

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 40 51 N
LONG 99 01 11 W

A - MANUAL GAUGE

REGULATED

WATER LEVELS ARE REFERRED TO CHURCHILL RIVER DATUM (MANITOBA HYDRO)

SOUTHERN INDIAN LAKE NEAR SOUTH INDIAN LAKE - STATION NO. 05EC001

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	257.005	257.028	---	257.195	257.701	256.055	256.075	256.014	256.174	256.075	256.134	1
2	---	257.000	257.040	---	257.207	257.724	256.048	256.067	256.015	256.183	256.089	256.121	2
3	---	256.993	257.030	---	257.211	257.747	256.057	256.075	256.090	256.185	256.037	256.123	3
4	---	256.991	257.042	---	257.235	257.773	256.058	256.077	256.093	256.139	256.057	256.122	4
5	---	256.981	257.041	257.111	257.230	257.782	256.036	256.073	256.093	256.145	256.080	256.120	5
6	257.110	256.984	257.043	257.108	257.235	257.786	256.026	256.069	256.101	256.152	256.092	256.120	6
7	257.102	256.986	257.049	257.110	257.243	257.814	256.035	256.071	256.094	256.138	256.099	256.119	7
8	257.102	256.976	257.055	257.119	257.246	257.833	256.036	256.070	256.130	256.131	256.113	256.117	8
9	257.101	256.984	257.049	257.120	257.243	257.845	256.025	256.057	256.138	256.106	256.089	256.117	9
10	257.085	256.993	257.051	257.121	257.262	257.866	256.029	256.070	256.159	256.104	256.089	256.119	10
11	257.073	257.004	257.065	257.123	257.279	257.883	256.031	256.058	256.162	256.107	256.088	256.122	11
12	257.071	257.004	257.074	257.131	257.280	257.902	256.025	256.049	256.180	256.083	256.086	256.127	12
13	257.069	257.013	257.075	257.125	257.294	257.915	256.027	256.044	256.183	256.077	256.100	256.128	13
14	257.069	257.009	257.070	257.132	257.282	257.926	256.044	256.040	256.183	256.091	256.114	256.115	14
15	257.065	257.011	---	257.151	257.308	257.950	256.051	256.054	256.151	256.084	256.093	256.107	15
16	257.082	257.006	---	257.145	257.313	257.963	256.058	256.027	256.144	256.074	256.090	256.107	16
17	257.063	256.995	---	257.141	257.319	257.972	256.058	256.029	256.159	256.089	256.084	256.108	17
18	257.048	257.007	---	257.152	257.333	257.987	256.069	256.036	256.218	256.080	256.107	256.108	18
19	257.046	257.008	---	257.146	257.348	258.000	256.075	256.063	256.263	256.054	256.115	256.102	19
20	257.045	257.011	---	257.163	257.361	258.011	256.083	256.043	256.278	256.049	256.118	256.100	20
21	257.044	257.011	---	257.165	257.381	258.027	256.080	256.032	256.278	256.081	256.130	256.097	21
22	257.045	257.013	---	257.178	257.410	258.039	256.091	256.049	256.234	256.062	256.139	256.096	22
23	257.045	257.018	---	257.168	257.426	258.038	256.079	256.034	256.215	256.055	256.138	256.093	23
24	257.035	257.014	---	257.151	257.440	258.043	256.072	256.029	256.225	256.057	256.141	256.078	24
25	257.015	257.017	---	257.151	257.467	258.058	256.068	256.034	256.222	256.054	256.146	256.084	25
26	257.010	257.028	---	257.154	257.486	258.049	256.082	256.035	256.220	256.050	256.147	256.086	26
27	257.011	257.032	---	257.163	257.516	258.040	256.092	256.030	256.220	256.060	256.148	256.085	27
28	257.027	257.025	257.085	257.173	257.570	258.042	256.098	256.028	256.221	256.069	256.144	256.081	28
29	257.015		257.084	257.178	257.604	258.052	258.109	256.022	256.183	256.052	256.140	256.074	29
30	257.011		257.075	257.180	257.638	258.058	258.078	256.021	256.173	256.060	256.140	256.072	30
31	257.015		257.075		257.675		256.081	256.018		256.062		256.068	31
MEAN	---	257.004	---	---	257.367	257.928	256.060	256.048	256.188	256.093	256.107	256.105	MEAN
MAX	---	257.032	---	---	257.675	258.058	258.109	256.087	256.278	256.183	256.148	256.134	MAX
MIN	---	256.976	---	---	257.195	257.701	256.025	256.018	256.014	256.049	256.037	256.068	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 46 44 N
LONG 98 56 26 W

MAXIMUM DAILY, 258.278 ON SEP 20
MINIMUM DAILY, 256.976 ON FEB 8
MAXIMUM INSTANTANEOUS,
258.284 AT 12:00 CST ON SEP 19

REGULATED SINCE 1976

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. GOVT. EXT.)

SPLIT LAKE AT SPLIT LAKE - STATION NO. 05UF003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	187.671	187.637	187.466	187.235	187.085	187.074	186.883	186.889	---	187.051	187.131	187.436	1
2	187.678	187.637	187.459	187.217	187.093	187.056	186.889	186.857	---	187.012	187.141	187.421	2
3	187.689	187.641	187.443	187.199	187.101	187.051	186.853	186.864	---	187.010	187.131	187.452	3
4	187.701	187.688	187.449	187.171	187.104	187.058	186.885	186.873	---	186.995	187.145	187.483	4
5	187.701	187.693	187.463	187.163	187.108	187.067	186.889	186.866	---	186.987	187.179	187.475	5
6	187.684	187.726	187.484	187.142	187.105	187.042	186.700	186.869	---	186.973	187.202	187.454	6
7	187.683	187.748	187.510	187.117	187.105	187.045	186.702	186.852	186.735A	186.986	187.178	187.428	7
8	187.690	187.732	187.532	187.107	187.108	187.055	186.706	186.849	186.758A	186.980	187.214	187.408	8
9	187.705	187.713	187.523	187.137	187.116	187.050	186.707	186.847	---	186.958	187.246	187.405	9
10	187.651	187.700	187.510	187.124	187.137	187.039	186.713	186.846	---	186.956	187.277	187.384	10
11	187.618	187.689	187.489	187.114	187.154	187.023	186.726	186.861	---	186.951	187.306	187.389	11
12	187.611	187.637	187.470	187.134	187.141	187.016	186.762	186.855	186.780A	187.016	187.323	187.383	12
13	187.615	187.650	187.430	187.128	187.131	187.014	186.782	186.853	186.785	187.047	187.320	187.416	13
14	187.626	187.648	187.398	187.141	187.115	187.000	186.778	186.826	186.785	187.064	187.338	187.448	14
15	187.613	187.639	187.389	187.153	187.088	186.978	186.733	186.787	186.774	187.088	187.385	187.470	15
16	187.618	187.603	187.370	187.151	187.087	186.952	186.769	186.814	186.775A	187.102	187.387	187.490	16
17	187.624	187.583	187.357	187.147	187.078	186.920	186.801	186.820	---	187.087	187.411	187.505	17
18	187.647	187.569	187.317	187.132	186.974	186.900	186.801	186.811	---	187.090	187.428	187.514	18
19	187.687	187.582	187.290	187.112	186.886	186.891	186.812	186.807	---	187.101	187.431	187.534	19
20	187.691	187.584	187.278	187.085	186.827	186.889	186.821	186.845	---	187.141	187.434	187.550	20
21	187.684	187.643	187.257	187.080	186.784	186.886	186.820	186.854	---	187.178	187.473	187.582	21
22	187.669	187.628	187.250	187.078	186.778	186.802	186.785	186.848	---	187.190	187.547	187.588	22
23	187.618	187.606	187.261	187.088	186.770	186.810	186.817	186.849	---	187.218	187.605	187.584	23
24	187.588	187.462	187.286	187.083	186.784	186.785	186.818	186.845A	---	187.224	187.636	187.601	24
25	187.571	187.448	187.318	187.085	186.782	186.695	186.818	---	---	187.228	187.631	187.648	25
26	187.584	187.434	187.337	187.071	186.775	186.717	186.835	---	---	187.222	187.620	187.690	26
27	187.578	187.457	187.332	187.077	186.785	186.717	186.838	---	---	187.201	187.618	187.748	27
28	187.583	187.468	187.332	187.083	186.831	186.709	186.857	---	---	187.178	187.597	187.785	28
29	187.618		187.325	187.082	186.881	186.703	186.855	---	---	187.163	187.560	187.808	29
30	187.642		187.284	187.088	186.950	186.648	186.878	---	187.067A	187.155	187.478	187.851	30
31	187.661		187.259		187.008		186.882	---		187.151		187.843	31
MEAN	187.645	187.601	187.381	187.123	186.980	186.919	186.771	---	---	187.088	187.378	187.642	MEAN
MAX	187.708	187.748	187.532	187.235	187.154	187.074	186.882	---	---	187.228	187.636	187.851	MAX
MIN	187.584	187.434	187.259	187.083	186.782	186.648	186.653	---	---	186.951	187.131	187.389	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

A - MANUAL GAUGE

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 14 43 N
LONG 98 05 40 W

MAXIMUM DAILY, 187.851 ON DEC 30
MINIMUM DAILY, 186.648 ON JUN 30
MAXIMUM INSTANTANEOUS,
187.863 AT 00:00 CST ON DEC 30

REGULATED SINCE 1964

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. GOVT. EXT.)

ST. MALO RESERVOIR NEAR ST. MALO - STATION NO. 05BE003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	256.057	256.049	256.054	256.244	256.231	256.175	256.152	256.036	255.988	256.027	256.059	256.057	1
2	256.057	256.046	256.055	256.255	256.228	256.176	256.160	256.055	255.985	256.031	255.059	256.057	2
3	256.057	256.049	256.056	256.270	256.214	256.184	256.179	256.052	255.973A	256.035	256.052	256.056	3
4	256.056	256.049	256.056	256.290	256.207	256.184	256.188	256.048	255.970E	256.036	256.049	256.054	4
5	256.056	256.049	256.051	256.307	256.205	256.184	256.193	256.038	255.968E	256.035	256.050	256.053	5
6	256.055	256.049	256.133	256.341	256.201	256.180	256.192	256.036	255.968E	256.038	256.052	256.054	6
7	256.054	256.049	256.228	256.388	256.197	256.177	256.184	256.033	255.964A	256.040	256.053	256.055	7
8	256.055	256.050	256.126	256.412	256.189	256.175	256.177	256.029	255.967	256.042	256.054	256.055	8
9	256.054	256.050	256.115	256.393	256.180	256.172	256.162	256.028	255.977	256.043	256.054	256.055	9
10	256.054	256.050	256.116	256.389	256.177	256.168	256.152	256.025	255.997	256.045	256.054	256.053	10
11	256.053	256.050	256.130	256.400	256.180	256.183	256.146	256.022	256.017	256.046	256.054	256.049	11
12	256.052	256.048	256.147	256.410	256.185	256.184	256.142	256.018	256.032	256.046	256.054	256.048	12
13	256.052	256.048	256.158	256.385	256.192	256.151	256.139	256.011	256.037	256.045	256.054	256.048	13
14	256.053	256.048	256.142	256.344	256.192	256.144	256.135	256.007	256.038	256.045	256.055	256.046	14
15	256.052	256.048	256.148	256.347	256.190	256.133	256.134	256.002	256.038	256.044	256.055	256.042	15
16	256.052	256.049	256.154	256.351	256.188	256.136	256.129	255.998	256.039	256.048	256.055	256.042	16
17	256.051	256.050	256.157	256.347	256.183	256.136	256.122	255.987	256.037	256.049	256.053	256.041	17
18	256.051	256.050	256.157	256.342	256.180	256.136	256.114	255.995	256.033	256.046	256.054	256.041	18
19	256.050	256.048	256.158	256.335	256.176	256.137	256.105	255.985	256.030	256.046	256.056	256.039	19
20	256.050	256.048	256.158	256.328	256.174	256.139	256.083	255.982	256.033	256.048	256.062	256.038	20
21	256.050	256.049	256.180	256.322	256.171	256.142	256.082	255.981	256.034	256.050	256.062	256.038	21
22	256.051	256.050	256.186	256.313	256.169	256.156	256.084	255.980	256.033	256.052	256.060	256.037	22
23	256.050	256.050	256.152	256.300	256.169	256.157	256.076	255.980	256.034	256.054	256.059	256.036	23
24	256.049	256.051	256.149	256.287	256.167	256.157	256.073	256.001	256.034	256.059	256.059	256.035	24
25	256.050	256.052	256.147	256.276	256.165	256.153	256.066	256.001	256.034	256.060	256.059	256.034	25
26	256.050	256.052	256.147	256.270	256.167	256.153	256.059	256.001	256.034	256.060	256.058	256.034	26
27	256.050	256.053	256.146	256.261	256.166	256.151	256.057	255.999	256.031	256.061	256.058	256.034	27
28	256.050	256.053	256.146	256.251	256.171	256.148	256.057	256.000	256.024	256.060	256.058	256.033	28
29	256.050		256.147	256.242	256.171	256.148	256.056	256.000	256.022	256.058	256.058	256.034	29
30	256.049		256.150	256.236	256.174	256.148	256.057	255.998	256.024	256.059	256.057	256.034	30
31	256.048		256.191		256.174		256.060	255.996		256.059		256.032	31
MEAN	256.052	256.050	256.135	256.322	256.185	256.157	256.121	256.011	256.013	256.047	256.056	256.044	MEAN
MAX	256.057	256.053	256.228	256.412	256.231	256.184	256.193	256.058	256.039	256.061	256.062	256.057	MAX
MIN	256.048	256.046	256.054	256.236	256.165	256.133	256.056	255.980	255.964	256.027	256.049	256.032	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 256.089
MAXIMUM DAILY, 256.412 ON APR 8
MINIMUM DAILY, 255.964A ON SEP 7
MAXIMUM INSTANTANEOUS,
256.416 AT 01:15 CST ON APR 9

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 06 N
LONG 95 56 13 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

STEEPROCK RIVER NEAR MAFEKING - STATION NO. 05LF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.590B	0.748B	2.56	9.15	3.77	3.74	1.86	2.61	---	---	1
2	---	---	0.590B	0.757B	2.83	8.22	5.59	3.44	1.80	2.56	---	---	2
3	---	---	0.588B	0.766B	2.93	31.7	15.8	3.26	1.78	2.83	---	---	3
4	---	---	0.590B	0.775B	2.86	22.0	15.7	3.09	1.63	2.96	---	---	4
5	---	---	0.596B	0.784B	3.26	14.0	10.5	2.90	1.84	2.93	---	---	5
6	---	---	0.603B	0.802B	3.71	10.4	7.76	2.82	4.82	2.87E	---	---	6
7	---	---	0.603B	0.821B	4.23	8.83	8.37	2.68	3.73	2.81E	---	---	7
8	---	---	0.603B	0.892B	5.87	8.42	5.58	2.58	2.92	2.75E	---	---	8
9	---	---	0.603B	0.946B	9.31	7.42	5.43	2.65	2.93	2.87E	---	---	9
10	---	---	0.603B	0.956B	16.3	6.59	5.30	2.89	4.22A	2.81E	---	---	10
11	---	---	0.640B	0.964B	9.98	5.84	6.33	2.59	5.69E	2.56E	---	---	11
12	---	---	0.694B	0.973B	8.19	7.86	5.89	2.54	5.07E	2.70E	---	---	12
13	---	---	0.703B	0.982B	6.73	13.7	5.02	2.54	4.48E	2.58E	---	---	13
14	---	---	0.712B	1.00 B	6.32	9.16	4.56	2.42	3.93E	3.41E	---	---	14
15	---	---	0.721B	1.02 B	5.73	9.70	5.74	2.35	3.38E	2.29E	---	---	15
16	---	---	0.730B	1.07 B	5.56	8.17	8.72	2.36	2.88E	2.44E	---	---	16
17	---	---	0.730B	1.14 B	6.84	6.88	7.75	2.32	2.46E	2.36E	---	---	17
18	---	---	0.730B	1.24 B	10.6	5.90	6.12	2.24	3.02E	2.27E	---	---	18
19	---	---	0.730B	1.40 B	14.6	5.74	5.29	2.40	3.89E	2.20E	---	---	19
20	---	---	0.730B	1.55 B	15.4	5.34	4.89	2.35	4.37E	2.13E	---	---	20
21	---	---	0.730B	1.80 B	16.6	4.79	4.40	2.31	5.11E	2.16E	---	---	21
22	---	---	0.730B	2.08 B	16.5	4.64	4.09	2.16	4.76E	2.24E	---	---	22
23	---	---	0.730B	2.40 A	15.3	4.60	3.85	2.10	4.41E	2.19E	---	---	23
24	---	---	0.730B	3.39	12.8	4.51	3.70	2.09	4.09E	2.15E	---	---	24
25	---	---	0.730B	4.36	11.7	4.55	3.51	2.38	3.78E	2.09E	---	---	25
26	---	---	0.730B	4.22	14.5	4.55	4.86	2.17	3.48E	2.05E	---	---	26
27	---	---	0.730B	3.16	16.7	4.38	4.85	2.09	3.10E	3.00E	---	---	27
28	---	---	0.730B	2.64	15.3	4.01	4.22	2.08	2.87A	1.86E	---	---	28
29	---		0.730B	2.42	12.4	3.76	4.03	2.04	2.78	1.90E	---	---	29
30	---		0.739B	2.42	10.4	3.80	4.06	1.99	2.67	1.67E	---	---	30
31	---		0.748B		9.21		4.13	1.95		1.81A		---	31
TOTAL	---	---	21.146	48.495	297.02	246.53	187.50	77.34	103.66	73.94	---	---	TOTAL
MEAN	---	---	0.682	1.62	9.58	8.28	6.05	2.49	3.46	2.39	---	---	MEAN
MAX	---	---	0.748	4.36	16.6	31.7	15.8	3.74	5.69	2.96	---	---	MAX
MIN	---	---	0.590	0.748	2.56	3.80	3.51	1.95	1.63	1.81	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.33
MAXIMUM DAILY, 31.7 ON JUN 3
MINIMUM DAILY, 0.590B ON MAR 1
MAXIMUM INSTANTANEOUS,
37.7 AT 05:02 CST ON JUN 3

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 43 40 N
LONG 101 06 45 W
DRAINAGE AREA, 300 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1958

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	16 200
FEB	---	AUG	6 680
MAR	1 836	SEP	8 950
APR	4 190	OCT	6 390
MAY	25 700	NOV	---
JUN	21 500	DEC	---

TOTAL DISCHARGE, 91 500 dam³

STEPHENFIELD RESERVOIR NEAR STEPHENFIELD - STATION NO 05OF008

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	295.124	294.828E	294.523	295.982	295.744	295.692	295.542	295.291	294.977	294.841	294.649	294.580	1
2	295.110	294.817E	294.515	295.968	295.738	295.695	295.540	295.285	294.966	294.843	294.635	294.578	2
3	295.104	294.806E	294.509	295.986	295.725	295.690	295.541	295.284	294.957	294.849	294.623	294.577	3
4	295.098	294.795E	294.502	296.066	295.720	295.681	295.534	295.277	294.943	294.850	294.618	294.577	4
5	295.087	294.784E	294.498	296.063	295.724	295.680	295.527	295.264	294.930	294.849	294.612	294.576	5
6	295.080	294.773E	294.544	296.084	295.718	295.683	295.516	295.252	294.924	294.842	294.602	294.575	6
7	295.071	294.762E	294.636	296.150	295.716	295.683	295.504	295.244	294.913	294.836	294.598	294.574A	7
8	295.065	294.751E	294.684	296.211	295.713	295.684	295.579	295.228	294.906	294.830	294.585	---	8
9	295.059	294.740E	294.685	296.256	295.715	295.685	295.549	295.220	294.903	294.824	294.581	---	9
10	295.049	294.729E	294.697	296.215	295.709	295.689	295.524	295.211	294.899	294.820	294.577	---	10
11	295.034	294.718E	294.702	296.164	295.692	295.693	295.494	295.195	294.887	294.811	294.572	---	11
12	295.028	294.708E	294.704	296.122	295.701	295.686	295.461	295.189	294.883	294.804	294.572	---	12
13	295.021	294.697E	294.759	296.052	295.727	295.675	295.435	295.175	294.873	294.798	294.572	---	13
14	295.011	294.686E	294.838	295.982	295.731	295.691	295.413	295.163	294.869	294.791	294.570	---	14
15	294.998	294.675E	294.882	295.924	295.724	295.685	295.404	295.154	294.876	294.783	294.570	---	15
16	294.992	294.664E	294.914	295.912	295.718	295.675	295.401	295.140	294.886	294.778	294.570	---	16
17	294.976	294.653E	294.936	295.904	295.718	295.665	295.386	295.137	294.891	294.773	294.569	---	17
18	294.968	294.642E	294.946	295.886	295.714	295.649	295.374	295.127	294.894	294.762	294.569	---	18
19	294.983	294.631E	294.958	295.871	295.704	295.646	295.372	295.111	294.876	294.756	294.569	---	19
20	294.956	294.620E	294.987	295.881	295.701	295.658	295.370	295.085	294.872	294.751	294.574	---	20
21	294.946	294.609E	294.973	295.879	295.706	295.668	295.385	295.081	294.866	294.744	294.581	---	21
22	294.936	294.598E	294.976	295.855	295.701	295.692	295.363	295.062	294.861	294.736	294.583	---	22
23	294.927	294.588E	294.975	295.833	295.706	295.690	295.343	295.048	294.859	294.727	294.585	---	23
24	294.909	294.577E	294.975	295.816	295.698	295.685	295.334	295.034	294.858	294.725	294.586	---	24
25	294.904A	294.568E	294.976	295.800	295.687	295.687	295.330	295.024	294.856	294.715	294.585	---	25
26	294.893E	294.555E	294.971	295.785	295.687	295.678	295.320	295.019	294.853	294.705	294.585	---	26
27	294.882E	294.544E	294.969	295.773	295.695	295.667	295.319	295.011	294.845	294.698	294.583	---	27
28	294.871E	294.533A	294.974	295.762	295.689	295.663	295.319	295.006	294.841	294.684	294.581	---	28
29	294.860E		295.015	295.748	295.684	295.651	295.300	295.000	294.830	294.671	294.578	---	29
30	294.849E		295.189	295.746	295.685	295.648	295.304	294.998	294.831	294.654	294.580	---	30
31	294.839E		295.684		295.689		295.299	294.986		294.655		---	31
MEAN	294.987	294.680	294.840	295.956	295.710	295.677	295.444	295.139	294.888	294.771	294.587	---	MEAN
MAX	295.124	294.828	295.684	296.256	295.744	295.695	295.542	295.291	294.977	294.850	294.649	---	MAX
MIN	294.839	294.533	294.498	295.746	295.684	295.646	295.299	294.986	294.830	294.655	294.569	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 296.256 ON APR 9
MINIMUM DAILY, 294.498 ON MAR 5
MAXIMUM INSTANTANEOUS,
296.285 AT 12:28 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 37 N
LONG 98 16 49 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

STONY CREEK NEAR BROOMHILL - STATION NO 05NG019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0.354	0.013	0	0	0	0	---	---	1
2	---	---	0B	0 B	0.288	0.017	0	0	0	0	---	---	2
3	---	---	0B	0 B	0.217	0.021	0	0	0	0	---	---	3
4	---	---	0B	0.0178	0.158	0.020	0	0	0	0	---	---	4
5	---	---	0B	0.0578	0.141	0.017	0	0	0	0	---	---	5
6	---	---	0B	0.0788	0.116	0.011	0	0	0	0	---	---	6
7	---	---	0B	0.5938	0.085	0.003	0	0	0	0	---	---	7
8	---	---	0B	1.54	0.064	0	0	0	0	0	---	---	8
9	---	---	0B	0.572	0.070	0	0	0	0	0	---	---	9
10	---	---	0B	0.870	0.060	0	0	0	0	0	---	---	10
11	---	---	0B	1.25	0.053	0	0	0	0	0	---	---	11
12	---	---	0B	2.44	0.054	0	0	0	0	0	---	---	12
13	---	---	0B	2.09	0.054	0	0	0	0	0	---	---	13
14	---	---	0B	1.89	0.058	0	0	0	0	0	---	---	14
15	---	---	0B	1.40	0.056	0	0	0	0	0	---	---	15
16	---	---	0B	1.10	0.053	0	0	0	0	0	---	---	16
17	---	---	0B	0.783	0.053	0	0	0	0	0	---	---	17
18	---	---	0B	0.567	0.047	0	0	0	0	0	---	---	18
19	---	---	0B	0.591	0.047	0	0	0	0	0	---	---	19
20	---	---	0B	0.603	0.048	0	0	0	0	0	---	---	20
21	---	---	0B	0.561	0.077	0	0	0	0	0	---	---	21
22	---	---	0B	2.43	0.067	0	0	0	0	0	---	---	22
23	---	---	0B	3.54	0.055	0	0	0	0	0	---	---	23
24	---	---	0B	3.74	0.048	0	0	0	0	0	---	---	24
25	---	---	0B	2.82	0.043	0	0	0	0	0	---	---	25
26	---	---	0B	1.71	0.038	0	0	0	0	0	---	---	26
27	---	---	0B	1.18	0.035	0	0	0	0	0	---	---	27
28	---	---	0B	0.801	0.031	0	0	0	0	0	---	---	28
29	---		0B	0.568	0.025	0	0	0	0	0	---	---	29
30	---		0B	0.468	0.018	0	0	0	0	0	---	---	30
31	---		0B		0.015		0	0		0		---	31
TOTAL	---	---	0	34.317	2.566	0.102	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	1.14	0.083	0.003	0	0	0	0	---	---	MEAN
MAX	---	---	0	3.74	0.354	0.021	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0.015	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.151
MAXIMUM DAILY, 3.74 ON APR 24
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
3.87 AT 20:33 CST ON APR 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 23 52 N
LONG 101 05 54 W
DRAINAGE AREA, 474 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	2 980	OCT	0
MAY	222	NOV	---
JUN	8.81	DEC	---

TOTAL DISCHARGE, 3 190 dam³

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	27.7 B	0.127	0.053	0.002	0.010	0	0.058	---	---	1
2	---	---	0 B	23.7 B	0.127	0.090	0 A	0.135	0	0.075	---	---	2
3	---	---	0 B	31.0 B	0.141	0.078	0	0.025	0	0.085	---	---	3
4	---	---	0 B	34.0 B	0.137	0.059	0	0.002	0	0.088	---	---	4
5	---	---	0 B	43.2 B	0.135	0.050	0	0	0.001	0.048	---	---	5
6	---	---	0 B	43.7	0.120	0.041	0	0	0.007	0.041	---	---	6
7	---	---	0 B	40.7	0.118	0.054	0	0	0	0.048	---	---	7
8	---	---	0 B	35.2	0.114	0.067	0	0	0	0.049	---	---	8
9	---	---	0 B	31.6	0.104	0.061	0	0	0	0.042	---	---	9
10	---	---	0 B	25.7	0.109	0.087	0	0.005	0	0.050	---	---	10
11	---	---	0 B	21.8	0.103	0.065	0	0.007	0	0.031	---	---	11
12	---	---	0 B	19.6	0.118	0.062	0	0.002	0	0.023	---	---	12
13	---	---	0 B	14.5	0.111	0.242	0	0.003	0	0.022	---	---	13
14	---	---	0 B	7.45	0.103	0.062	0	0.001	0.002	0.020	---	---	14
15	---	---	0 B	1.96	0.107	0.092	0	0.001	0.050	0.015	---	---	15
16	---	---	0 B	1.42	0.105	0.052	0	0.002	0.033	0.010	---	---	16
17	---	---	0 B	1.10	0.106	0.040	0	0.001	0.011	0.010	---	---	17
18	---	---	0 B	0.849	0.102	0.005	0	0.001	0.001	0.010	---	---	18
19	---	---	0 B	0.682	0.087	0.003	0	0.003	0.010	0.010	---	---	19
20	---	---	0 B	0.553	0.087	0.316	0	0.125	0.028	0.015	---	---	20
21	---	---	0 B	0.486	0.101	0.500	0.001E	0.002	0.017	0.025	---	---	21
22	---	---	0 0108	0.387	0.087	15.0	0.002E	0.002	0.008	0.055	---	---	22
23	---	---	0 1508	0.348	0.091	10.5	0.003E	0.005	0.007	0.184	---	---	23
24	---	---	0 3268	0.276	0.085	4.78	0.004E	0.120	0.003	0.233	---	---	24
25	---	---	1.14 B	0.230	0.082	1.63	0.005E	0.100	0.001	0.200	---	---	25
26	---	---	3.29 B	0.217	0.082	0.861	0.006E	0.020	0.006	0.203	---	---	26
27	---	---	5.15 B	0.191	0.094	0.378	0.007E	0.002	0.011	0.206	---	---	27
28	---	---	10.0 B	0.173	0.098	0.184	0.008A	0	0.055	0.193	---	---	28
29	---	---	14.2 B	0.182	0.082	0.091	0.002	0	0.016	0.191	---	---	29
30	---	---	18.5 B	0.155	0.081	0.036	0.077	0	0.148	0.201	---	---	30
31	---	---	23.1 B		0.056		0.020	0.001		0.188A		---	31
TOTAL	---	---	76.878	409.859	3.180	37.129	0.137	0.575	0.418	2.822	---	---	TOTAL
MEAN	---	---	2.48	13.7	0.102	1.24	0.004	0.019	0.014	0.085	---	---	MEAN
MAX	---	---	23.1	43.7	0.141	15.0	0.077	0.135	0.148	0.233	---	---	MAX
MIN	---	---	0	0.155	0.056	0.003	0	0	0	0.010	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.17
MAXIMUM DAILY, 43.7 ON APR 6
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
46.9B AT 16:12 CST ON APR 5

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 52 N
LONG 97 16 43 W
DRAINAGE AREA, 572 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	11.8
FEB	---	AUG	48.7
MAR 6	640	SEP	38.1
APR 35	400	OCT	227
MAY	273	NOV	---
JUN 3	210	DEC	---

TOTAL DISCHARGE, 46 800 dam³

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	20.0 B	0.651	0.003	0.180E	0.174	0.001	0.104	---	---	1
2	---	---	0 B	19.6 B	0.708	0.004	0.174E	0.204	0.002	0.196	---	---	2
3	---	---	0 B	26.3 B	0.628	0.001	0.168E	0.197	0	0.115	---	---	3
4	---	---	0 B	34.7 B	0.588	0.009	0.183E	0.198	0	0.097	---	---	4
5	---	---	0 B	36.9 B	0.509	0.010	0.187E	0.198	0	0.104	---	---	5
6	---	---	0 B	33.8	0.402	0.006	0.139E	0.208	0	0.076	---	---	6
7	---	---	0 B	30.8	0.328	0.015	0.121E	0.200	0.001	0.041	---	---	7
8	---	---	0 B	26.0	0.293	0.006	0.103E	0.185	0.002	0.027	---	---	8
9	---	---	0 B	20.4	0.252	0.001	0.085E	0.112	0.002	0.057	---	---	9
10	---	---	0 B	14.2	0.158	0.001	0.087E	0.084	0	0.032	---	---	10
11	---	---	0 B	10.4	0.088	0.008	0.062E	0.041	0	0.011	---	---	11
12	---	---	0 B	8.09	0.025	0.015	0.058E	0.041	0	0.006	---	---	12
13	---	---	0 B	6.85	0.150	0.005	0.053E	0.019	0	0.006	---	---	13
14	---	---	0 B	3.50	0.142	0.002	0.049E	0.018	0.002	0.003	---	---	14
15	---	---	0 B	3.45 A	0.075	0.001	0.044E	0.010	0.014	0.002	---	---	15
16	---	---	0 B	3.00	0.088	0.001	0.038E	0.010	0.009	0.001	---	---	16
17	---	---	0 B	2.63	0.079	0.007	0.033E	0.018	0.039	0.002	---	---	17
18	---	---	0 B	2.24	0.084	0.003	0.027E	0.020	0.008	0.002	---	---	18
19	---	---	0 B	1.99	0.087	0.010	0.021E	0.004	0.018	0.003	---	---	19
20	---	---	0 B	1.76	0.088	0.084	0.022E	0.040	0.018	0.007	---	---	20
21	---	---	0 B	1.62	0.088	0.098	0.023E	0.031	0.014	0.010	---	---	21
22	---	---	0.0808	1.43	0.078	10.7	0.024E	0.030	0.018	0.007	---	---	22
23	---	---	0.1678	1.28	0.088	5.83	0.025E	0.030	0.018	0.014	---	---	23
24	---	---	0.2508	1.15	0.034	3.61 A	0.026E	0.042	0.005	0.004	---	---	24
25	---	---	1.34 B	1.08	0.019	0.317E	0.027E	0.033	0.018	0.018	---	---	25
26	---	---	2.03 B	1.03	0.015	0.260E	0.029E	0.047	0.026	0.026	---	---	26
27	---	---	3.36 B	0.979	0.011	0.203E	0.031E	0.066	0.052	0.025	---	---	27
28	---	---	5.22 B	0.920	0.007	0.187E	0.032A	0.038	0.040	0.008	---	---	28
29	---		7.01 B	0.886	0.002	0.182E	0.088	0.006	0.048	0.034	---	---	29
30	---		10.8 B	0.812	0.001	0.188E	0.108	0.004	0.082	0.042	---	---	30
31	---		15.9 B		0.002		0.140	0.002		0.050A		---	31
TOTAL	---	---	46.177	313.889	5.672	22.963	2.297	2.380	0.412	1.128	---	---	TOTAL
MEAN	---	---	1.49	10.5	0.183	0.765	0.074	0.076	0.014	0.036	---	---	MEAN
MAX	---	---	15.9	36.9	0.708	10.7	0.180	0.208	0.052	0.196	---	---	MAX
MIN	---	---	0	0.812	0.001	0.001	0.021	0.002	0	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.61
MAXIMUM DAILY, 36.9B ON APR 6
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
37.5B AT 15:56 CST ON APR 5

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 20 N
LONG 97 20 40 W
DRAINAGE AREA, 541 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	198
FEB	---	AUG	204
MAR 3	990	SEP	35.6
APR 27	100	OCT	97.5
MAY	489	NOV	---
JUN 1	980	DEC	---

TOTAL DISCHARGE, 34 100 dam³

SWAN (PEMBINA) LAKE NEAR SWAN LAKE - STATION NO. 05OB018

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1.639	1.079	0.750	0.681	0.541	0.472	---	---	1
2	---	---	---	---	1.620	1.063	0.749	0.671	0.533	0.477	---	---	2
3	---	---	---	---	1.595	1.045	0.787	0.667	0.518	0.485	---	---	3
4	---	---	---	---	1.581	1.030	0.780	0.659	0.512	0.486	---	---	4
5	---	---	---	---	1.562	1.014	0.773	0.649	0.508	0.483	---	---	5
6	---	---	---	---	1.541	0.995	0.772	0.641	0.498	0.482	---	---	6
7	---	---	---	---	1.519	0.984	0.772	0.629	0.502	0.482	---	---	7
8	---	---	---	---	1.500	0.968	0.771	0.621	0.496	0.482	---	---	8
9	---	---	---	---	1.485	0.955	0.773	0.612	0.500	0.483	---	---	9
10	---	---	---	---	1.453	0.950	0.765	0.604	0.488	0.479	---	---	10
11	---	---	---	---	1.419	0.940	0.738	0.600	0.484	0.471	---	---	11
12	---	---	---	---	1.421	0.927	0.737	0.592	0.483	0.473	---	---	12
13	---	---	---	---	1.399	0.910	0.737	0.580	0.481	0.479	---	---	13
14	---	---	---	---	1.383	0.898	0.736	0.578	0.481	0.479	---	---	14
15	---	---	---	---	1.369	0.880	0.734	0.565	0.502	0.477	---	---	15
16	---	---	---	---	1.350	0.869	0.729	0.563	0.508	0.472	---	---	16
17	---	---	---	---	1.329	0.853	0.721	0.558	0.505	0.470	---	---	17
18	---	---	---	---	1.312	0.839	0.721	0.551	0.488	0.468	---	---	18
19	---	---	---	---	1.297	0.829	0.726	0.530	0.485	0.468	---	---	19
20	---	---	---	---	1.281	0.826	0.728	0.534	0.487	0.472	---	---	20
21	---	---	---	---	1.264	0.828	0.722	0.535	0.473	0.473	---	---	21
22	---	---	---	---	1.242	0.856	0.715	0.531	0.470	0.473	---	---	22
23	---	---	---	---	1.225	0.849	0.707	0.534	0.470	0.471	---	---	23
24	---	---	---	---	1.207	0.848	0.707	0.545	0.468	0.470	---	---	24
25	---	---	---	---	1.193	0.834	0.705	0.540	0.468	0.468	---	---	25
26	---	---	---	---	1.180	0.828	0.702	0.537	0.467	0.469	---	---	26
27	---	---	---	1.690A	1.159	0.814	0.700	0.533	0.464	0.468	---	---	27
28	---	---	---	1.675	1.144	0.807	0.691	0.535	0.463	0.462	---	---	28
29	---		---	1.660	1.120	0.789	0.685	0.536	0.449	0.465	---	---	29
30	---		---	1.651	1.106	0.757	0.690	0.534	0.458	0.466	---	---	30
31	---		---		1.092		0.683	0.526		0.468A		---	31
MEAN	---	---	---	---	1.354	0.904	0.735	0.580	0.488	0.474	---	---	MEAN
MAX	---	---	---	---	1.639	1.079	0.780	0.681	0.541	0.486	---	---	MAX
MIN	---	---	---	---	1.092	0.787	0.683	0.526	0.449	0.462	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

A - MANUAL GAUGE

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 21 20 N
LONG 98 54 00 W

MINIMUM DAILY, 0.449 ON SEP 29

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SWAN LAKE NEAR NOVRA - STATION NO. 05LE007

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	259.418E	259.711	259.552	259.614	259.202	258.997	---	---	1
2	---	---	---	---	259.435A	259.707	259.548	259.572	259.194	258.986	---	---	2
3	---	---	---	---	259.451	259.691	259.543	259.537	259.082	259.000	---	---	3
4	---	---	---	---	259.470	259.694	259.525	259.510	259.141	258.998	---	---	4
5	---	---	---	---	259.487	259.677	259.540	259.491	259.137	258.985	---	---	5
6	---	---	---	---	259.487	259.688	259.546	259.501	259.121	258.963	---	---	6
7	---	---	---	---	259.508	259.693	259.560	259.435	259.147	258.970	---	---	7
8	---	---	---	---	259.515	259.688	259.575	259.459	259.132	258.968	---	---	8
9	---	---	---	---	259.521	259.686	259.579	259.462	259.138	258.972	---	---	9
10	---	---	---	---	259.513	259.689	259.614	259.428	259.070	258.944	---	---	10
11	---	---	---	---	259.523	259.682	259.593	259.440	259.112	258.892	---	---	11
12	---	---	---	---	259.538	259.659	259.657	259.425	259.119	258.952	---	---	12
13	---	---	---	---	259.552	259.642	259.642	259.412	259.111	258.954	---	---	13
14	---	---	---	---	259.581	259.629	259.657	259.428	259.118	258.939	---	---	14
15	---	---	---	---	259.594	259.649	259.615	259.377	259.101	258.961	---	---	15
16	---	---	---	---	259.610	259.682	259.649	259.411	259.118	258.889	---	---	16
17	---	---	---	---	259.615	259.678	259.654	259.374	259.106	258.887	---	---	17
18	---	---	---	---	259.630	259.700	259.650	259.340	259.029	258.929	---	---	18
19	---	---	---	---	259.649	259.672	259.658	259.286	258.988	258.933	---	---	19
20	---	---	---	---	259.687	259.654	259.680	259.340	258.981	258.936	---	---	20
21	---	---	---	---	259.682	259.641	259.662	259.290	258.990	258.922	---	---	21
22	---	---	258.558A	---	259.722	259.628	259.622	259.292	259.031	258.928	---	---	22
23	---	---	---	---	259.726	259.630	259.651	259.263	259.039	258.912	---	---	23
24	---	---	---	---	259.740	259.633	259.659	259.276	259.020	258.885	---	---	24
25	---	---	---	---	259.784	259.619	259.658	259.271	259.025	258.891	---	---	25
26	---	---	---	---	259.753	259.603	259.644	259.281	259.029	258.901	---	---	26
27	---	---	---	259.018A	259.743	259.589	259.637	259.251	259.012	258.882	---	---	27
28	---	---	---	---	259.697	259.581	259.610	259.237	258.925	258.887	---	---	28
29	---		---	---	259.726	259.575	259.606	259.237	259.008	258.890	---	---	29
30	---		---	---	259.712	259.552	259.609	259.227	259.001	258.884	---	---	30
31	---		---		259.717		259.618	259.213		258.886		---	31
MEAN	---	---	---	---	259.606	259.654	259.613	259.376	259.069	258.929	---	---	MEAN
MAX	---	---	---	---	259.784	259.711	259.662	259.614	259.202	259.000	---	---	MAX
MIN	---	---	---	---	259.418	259.552	259.525	259.213	258.925	258.887	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

A - MANUAL GAUGE

E - ESTIMATED

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 32 00 N
LONG 100 52 00 W

MAXIMUM DAILY, 259.784 ON MAY 25

MAXIMUM INSTANTANEOUS,
259.844 AT 22:37 CST ON JUL 16

DRAINAGE AREA,
9 760 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (LOCAL 1982 ADJ.)

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.07 B	0.625B	0.623B	0.482B	55.6	13.6	7.56	18.6	1.73	3.17	2.10	2.11 B	1
2	1.11 B	0.602B	0.586B	0.524B	46.2	12.4	7.71	15.9	1.68	3.11	2.10	2.02 B	2
3	1.10 B	0.596B	0.539B	0.607B	41.3	12.3	9.53	13.8	1.47	3.03	2.16	1.93 B	3
4	1.04 B	0.588B	0.501B	0.670B	38.2	11.8	14.8	12.2	1.27	2.95	2.29	1.85 B	4
5	1.00 B	0.580B	0.454B	0.668E	35.2	11.3	22.8	10.9	1.22	2.90	2.43	1.76 B	5
6	0.977B	0.577B	0.446B	0.646B	32.3	11.5	29.3	10.5	1.74	2.84	2.28	1.68 B	6
7	0.881B	0.572B	0.459B	0.646B	29.7	12.2	31.5	8.53	1.57	2.56	2.43	1.61 B	7
8	0.926B	0.564B	0.453B	0.653B	27.3	12.7	30.5	7.23	1.30	2.55	2.46	1.52 B	8
9	0.969B	0.559B	0.334B	0.653B	25.6	12.9	28.5	6.34	1.22	2.57	2.49	1.45 B	9
10	0.927B	0.544B	0.246B	0.653B	25.3	12.8	26.0	5.73	1.50	2.87	2.54	1.38 B	10
11	0.896B	0.552B	0.220B	0.660B	25.1	12.6	26.3	5.08	1.28	3.12	2.71	1.30 B	11
12	0.861B	0.583B	0.211B	0.660B	26.3	14.1	24.4	4.54	2.03	3.35	2.81	1.24 B	12
13	0.842B	0.596B	0.211B	0.660B	27.8	14.4	21.9	4.30	2.27	3.19	2.89	1.18 B	13
14	0.846B	0.628B	0.210B	0.668B	26.6	13.8	20.7	3.85	2.24	3.10	3.05	1.20 B	14
15	0.867B	0.685B	0.232B	0.658B	26.0	15.0	21.1	3.51	3.21	3.15	3.09	1.18 B	15
16	0.800B	0.731B	0.220B	0.668B	27.8	16.4	23.4	3.64	3.55	3.15	2.98	1.16 B	16
17	0.762B	0.736B	0.202B	0.675B	32.4	17.0	24.4	3.45	3.22	3.03	3.07	1.14 B	17
18	0.738B	0.713B	0.189B	0.675B	40.5	17.1	23.7	3.18	2.96	2.83	3.11	1.10 B	18
19	0.688B	0.550B	0.188B	0.675B	47.6	16.8	20.7	2.96	2.75	2.83	3.14	1.09 B	19
20	0.749B	0.518B	0.182B	0.683B	39.5	15.8	19.4	2.94	2.82	2.72	3.08	1.08 B	20
21	0.788B	0.581B	0.183B	0.683B	33.7	14.2	18.2	2.74	2.46	2.64	3.06	1.03 B	21
22	0.803B	0.696B	0.183B	2.44 B	32.2	12.7	17.2	2.58	2.29	2.58	2.958	0.988B	22
23	0.789B	0.610B	0.191B	53.3 B	30.1	11.5	15.6	2.34	2.38	2.55	2.878	0.972B	23
24	0.749B	0.608B	0.210B	184 B	27.9	10.3	14.2	2.16	3.19	2.48	2.768	0.950B	24
25	0.717B	0.617B	0.225B	218	26.4	9.77	13.0	2.48	4.04	2.40	2.658	0.936B	25
26	0.705B	0.617B	0.255B	183	24.7	9.02	12.6	2.03	4.31	2.35	2.568	0.941B	26
27	0.694B	0.610B	0.300B	126	22.8	8.30	15.8	1.88	4.09	2.34	2.488	0.978B	27
28	0.682B	0.624B	0.356B	114	21.4	8.11	30.7	1.70	3.89	2.30	2.398	0.919B	28
29	0.675B		0.403B	96.4	19.0	8.15	28.2	1.80	3.64	2.13	2.298	0.790B	29
30	0.685B		0.448B	73.2	16.6	7.95	23.2	1.55	3.35	1.78	2.198	0.718B	30
31	0.658B		0.488B		15.0		20.5	1.46		1.93		0.627B	31
TOTAL	25.989	16.940	9.942	1 023.917	946.8	376.40	648.70	189.88	74.47	84.40	79.44	38.829	TOTAL
MEAN	0.838	0.605	0.321	34.1	30.5	12.5	20.9	5.47	2.48	2.72	2.65	1.25	MEAN
MAX	1.11	0.736	0.623	218	55.6	17.1	31.5	18.6	4.31	3.35	3.14	2.11	MAX
MIN	0.656	0.518	0.182	0.482	15.0	7.95	7.56	1.46	1.22	1.78	2.10	0.627	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.57
MAXIMUM DAILY, 218 ON APR 25
MINIMUM DAILY, 0.182B ON MAR 20
MAXIMUM INSTANTANEOUS,
231 AT 05:43 CST ON APR 25

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 11 47 N
LONG 101 03 37 W
DRAINAGE AREA, 4 220 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 250	JUL	55 900
FEB	1 480	AUG	14 700
MAR	859	SEP	6 430
APR	88 500	OCT	7 290
MAY	81 800	NOV	6 860
JUN	32 500	DEC	3 350

TOTAL DISCHARGE, 302 000 dam³

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05YG002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.71B	1.41B	1.18 B	0.878B	7.57E	36.1	5.24	3.26	2.20	14.4	4.98	1.95B	1
2	1.70B	1.41B	1.15 B	0.868B	7.83E	34.7	5.00	3.01	2.12	13.7	4.71	1.91B	2
3	1.69B	1.40B	1.14 B	0.880B	8.29E	33.1	4.79	3.09	2.13	12.8	4.48	1.88B	3
4	1.69B	1.39B	1.13 B	0.851B	8.77E	31.5	4.33	3.19	2.47	12.3	4.26B	1.85B	4
5	1.68B	1.39B	1.12 B	0.842B	9.30E	29.8	4.04	3.08	2.57	11.9	4.14B	1.83B	5
6	1.67B	1.38B	1.11 B	0.833B	10.6 E	28.1	3.80	2.78	2.41	11.6	4.01B	1.80B	6
7	1.66B	1.37B	1.10 B	0.824B	12.4 E	26.1	3.26	2.53	2.26	11.1	3.85B	1.77B	7
8	1.65B	1.36B	1.09 B	0.815B	13.9 E	24.4	2.98	2.32	2.20	10.8	3.69B	1.74B	8
9	1.64B	1.35B	1.08 B	0.806B	15.4 E	23.1	2.75	2.24	2.15	10.1	3.54B	1.71B	9
10	1.63B	1.34B	1.08 B	0.797B	16.3 E	21.8	2.62	2.34	2.89	9.73	3.40B	1.68B	10
11	1.62B	1.33B	1.07 B	0.791B	17.2 E	20.7	2.65	2.39	6.82	8.34	3.30B	1.65B	11
12	1.60B	1.32B	1.06 B	0.782B	18.1 E	19.3	3.16	2.26	8.60	8.04	3.19B	1.62B	12
13	1.59B	1.31B	1.05 B	0.779B	19.C E	18.1	3.22	2.24	9.24	8.62	3.08B	1.59B	13
14	1.58B	1.30B	1.04 B	0.778B	19.7 E	19.1	3.30	2.16	9.11	8.30	2.98B	1.56B	14
15	1.57B	1.30B	1.03 B	0.770B	21.0 E	18.2	4.34	2.04	8.62	7.98	2.88B	1.54B	15
16	1.56B	1.29B	1.02 B	0.776B	23.8 A	16.9	9.63	1.97	7.98	7.84	2.78B	1.51B	16
17	1.55B	1.28B	1.01 B	0.785B	26.7	15.6	17.5	1.88	9.89	8.14	2.69B	1.49B	17
18	1.54B	1.27B	1.00 B	0.815B	28.8	14.3	17.4	1.84	18.7	7.85	2.61B	1.47B	18
19	1.53B	1.26B	0.995B	0.890B	29.3	12.8	15.9	2.16	22.6	7.18	2.51B	1.44B	19
20	1.52B	1.25B	0.986B	1.06 B	30.1	11.8	13.7	2.95	23.7	6.92	2.41B	1.42B	20
21	1.51B	1.24B	0.977B	1.36 B	30.4	10.8	11.5	3.18	22.9	6.85	2.30B	1.39B	21
22	1.50B	1.23B	0.968B	1.62 B	30.7	9.85	9.81	3.21	21.5	6.71	2.26B	1.37B	22
23	1.48B	1.22B	0.959B	2.17	31.2	8.94	8.91	3.03	20.3	6.53	2.23B	1.35B	23
24	1.48B	1.21B	0.950B	3.10	31.5	8.41	7.91	2.92	19.4	6.45	2.19B	1.33B	24
25	1.47B	1.21B	0.941B	3.72 E	31.4	7.79	6.86	2.77	18.6	6.21	2.18B	1.30B	25
26	1.46B	1.20B	0.932B	4.52 E	32.0	7.03	6.24	3.17	17.6	5.94	2.12B	1.28B	26
27	1.45B	1.19B	0.923B	5.34 E	33.2	6.61	5.79	3.33	16.5	5.78	2.08B	1.26B	27
28	1.44B	1.18B	0.914B	6.05 E	35.8	6.18	5.25	3.14	16.0*	5.72	2.05B	1.24B	28
29	1.43B		0.905B	6.52 E	37.3	5.78	4.57	2.87	15.9	5.46	2.02B	1.21B	29
30	1.42B		0.899B	6.97 E	37.5	5.47	3.94	2.62	15.2	5.30	1.98B	1.19B	30
31	1.42B		0.890B		37.1		3.64	2.29		5.16		1.17B	31
TOTAL	48.44	35.39	31.689	57.969	712.26	533.35	203.83	82.28	332.57	285.24	90.88	47.91	TOTAL
MEAN	1.56	1.30	1.02	1.93	23.0	17.8	6.58	2.65	11.1	8.56	3.03	1.53	MEAN
MAX	1.71	1.41	1.18	6.97	37.5	36.1	17.5	3.33	23.7	14.4	4.98	1.95	MAX
MIN	1.42	1.18	0.890	0.770	7.57	5.47	2.62	1.84	2.12	5.16	1.98	1.17	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.69
MAXIMUM DAILY, 37.5 ON MAY 30
MINIMUM DAILY, 0.770B ON APR 15
MAXIMUM INSTANTANEOUS,
37.6 AT 12:45 CST ON MAY 29

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 29 20 N
LONG 98 11 10 W
DRAINAGE AREA, 883 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 190	JUL	17 600
FEB	3 140	AUG	7 110
MAR	2 740	SEP	28 700
APR	5 010	OCT	22 900
MAY	61 500	NOV	7 850
JUN	46 100	DEC	4 100

TOTAL DISCHARGE, 211 000 dam³

TOBACCO CREEK NEAR ROSEBANK - STATION NO 05OF018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.71 B	0.032	0.026	0.033	0	0	0	---	---	1
2	---	---	0 B	3.62 B	0.029	0.026	0.037	0	0	0	---	---	2
3	---	---	0 B	3.50 B	0.038	0.051	0.047	0	0	0	---	---	3
4	---	---	0 B	3.41 B	0.030	0.030	0.039	0	0	0	---	---	4
5	---	---	0.001B	2.92 B	0.028	0.023	0.034	0	0	0	---	---	5
6	---	---	0.010B	2.68 B	0.022	0.024	0.035	0	0	0	---	---	6
7	---	---	0.005B	2.76 B	0.027	0.011	0.025	0	0	0	---	---	7
8	---	---	0.002B	2.55 B	0.015	0.005	0.019	0	0	0	---	---	8
9	---	---	0.002B	2.45	0.021	0.002	0.020	0	0	0	---	---	9
10	---	---	0.020B	1.95	0.020	0	0.013	0	0	0	---	---	10
11	---	---	0.100B	1.40	0.016	0	0.004	0	0	0	---	---	11
12	---	---	0.400B	0.915	0.022	0	0.001	0	0	0	---	---	12
13	---	---	1.00 B	0.859	0.042	0	0	0	0	0	---	---	13
14	---	---	0.800B	0.471	0.090	0	0	0	0	0	---	---	14
15	---	---	0.450B	0.283	0.097	0	0	0	0	0	---	---	15
16	---	---	0.235B	0.107	0.083	0	0	0	0	0	---	---	16
17	---	---	0.120B	0.098	0.059	0	0	0	0	0	---	---	17
18	---	---	0.050B	0.095	0.061	0	0	0	0	0	---	---	18
19	---	---	0.020B	0.104	0.049	0	0	0	0	0	---	---	19
20	---	---	0.005B	0.278	0.047	0	0	0	0	0	---	---	20
21	---	---	0.002B	0.291	0.042	0	0	0	0	0	---	---	21
22	---	---	0.002B	0.238	0.042	0.004	0.017	0	0	0	---	---	22
23	---	---	0.002B	0.154	0.038	0.298	0.002	0	0	0	---	---	23
24	---	---	0.002B	0.108	0.033	0.088	0	0	0	0	---	---	24
25	---	---	0.002B	0.079	0.029	0.077	0	0	0	0	---	---	25
26	---	---	0.030B	0.077	0.030	0.054	0	0	0	0	---	---	26
27	---	---	0.300B	0.063	0.029	0.053	0	0	0	0	---	---	27
28	---	---	0.800B	0.057	0.029	0.043	0	0	0	0	---	---	28
29	---		1.50 B	0.057	0.027	0.034	0	0	0	0	---	---	29
30	---		2.86 B	0.042	0.024	0.036	0	0	0	0	---	---	30
31	---		3.55 B		0.029		0	0		0		---	31
TOTAL	---	---	12.270	35.126	1.178	0.887	0.326	0	0	0	---	---	TOTAL
MEAN	---	---	0.396	1.17	0.038	0.030	0.011	0	0	0	---	---	MEAN
MAX	---	---	3.55	3.71	0.097	0.298	0.047	0	0	0	---	---	MAX
MIN	---	---	0	0.042	0.015	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.203
MAXIMUM DAILY, 3.71B ON APR 1
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
4.75 AT 15:22 CST ON APR 7

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 17 N
LONG 98 11 05 W
DRAINAGE AREA, 107 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	28.2
FEB	---	AUG	0
MAR	1 060	SEP	0
APR	3 030	OCT	0
MAY	102	NOV	---
JUN	76.6	DEC	---

TOTAL DISCHARGE, 4 300 dam³

TOUROND CREEK NEAR TOUROND - STATION NO 05OE009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.57 B	0.141	0.109	0.082	0.021	0	0	---	---	1
2	---	---	0 B	5.06 B	0.131	0.108	0.080	0.014	0	0	---	---	2
3	---	---	0 B	6.61 B	0.126	0.109	0.085	0.009	0	0	---	---	3
4	---	---	0.001B	5.81 B	0.122	0.110	0.101	0.005	0	0	---	---	4
5	---	---	0.005B	3.54 B	0.117	0.103	2.48	0.004	0	0	---	---	5
6	---	---	0.086B	7.98 B	0.114	0.099	7.39	0.003	0	0	---	---	6
7	---	---	0.445B	8.88 B	0.111	0.095	7.02	0.003	0	0	---	---	7
8	---	---	0.974B	8.80 B	0.109	0.088	5.94	0.002	0	0	---	---	8
9	---	---	3.04 B	7.31	0.104	0.079	4.57	0.002	0	0	---	---	9
10	---	---	4.32 B	5.72	0.101	0.067	3.18	0.002	0	0	---	---	10
11	---	---	3.43 B	4.68	0.106	0.051	2.17	0.002	0	0	---	---	11
12	---	---	2.49 B	3.81	0.117	0.037	1.30	0.002	0	0	---	---	12
13	---	---	1.94 B	2.89	0.129	0.034	0.586	0	0	0	---	---	13
14	---	---	1.60 B	2.04 B	0.145	0.027	0.199	0	0	0	---	---	14
15	---	---	1.27 B	2.44 B	0.150	0.035	0.138	0	0	0	---	---	15
16	---	---	0.835B	2.46 B	0.139	0.028	0.114	0	0	0	---	---	16
17	---	---	0.754B	1.87	0.138	0.042	0.087	0	0	0	---	---	17
18	---	---	0.543B	1.51	0.137	0.099	0.079	0	0	0	---	---	18
19	---	---	0.352B	1.23	0.131	0.115	0.051	0	0	0	---	---	19
20	---	---	0.205B	0.920	0.129	0.114	0.043	0	0	0	---	---	20
21	---	---	0.172B	0.708	0.124	0.107	0.028	0	0	0	---	---	21
22	---	---	0.181B	0.566	0.117	0.124	0.015	0	0	0	---	---	22
23	---	---	0.230B	0.431	0.114	0.124	0.010	0	0	0	---	---	23
24	---	---	0.445B	0.315	0.109	0.133	0.040	0	0	0	---	---	24
25	---	---	0.115B	0.242	0.107	0.119	0.047	0	0	0	---	---	25
26	---	---	0.056B	0.219	0.108	0.114	0.031	0	0	0	---	---	26
27	---	---	0.047B	0.188	0.100	0.099	0.020	0	0	0	---	---	27
28	---	---	0.044B	0.177	0.101	0.087	0.012	0	0	0	---	---	28
29	---		0.041B	0.168	0.089	0.076	0.006	0	0	0	---	---	29
30	---		0.363B	0.160	0.101	0.071	0.030	0	0	0	---	---	30
31	---		3.43 B		0.109		0.034	0		0		---	31
TOTAL	---	---	27.434	81.505	3.586	2.805	35.907	0.089	0	0	---	---	TOTAL
MEAN	---	---	0.885	3.05	0.119	0.087	1.16	0.002	0	0	---	---	MEAN
MAX	---	---	4.32	8.88	0.150	0.133	7.38	0.021	0	0	---	---	MAX
MIN	---	---	0	0.150	0.089	0.027	0.006	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.658
MAXIMUM DAILY, 8.88B ON APR 7
MINIMUM DAILY, 0B ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 50 N
LONG 95 58 50 W
DRAINAGE AREA, 237 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 100
FEB	---	AUG	5.96
MAR	2 370	SEP	0
APR	7 810	OCT	0
MAY	318	NOV	---
JUN	226	DEC	---

TOTAL DISCHARGE, 13 900 dam³

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.364B	0	0	0.069	0	0	0	---	---	1
2	---	---	0 B	0.487B	0	0	0.062	0	0	0	---	---	2
3	---	---	0 B	0.549B	0	0	0.060	0	0	0	---	---	3
4	---	---	0 B	0.530B	0	0	0.053	0	0	0	---	---	4
5	---	---	0 B	0.613	0	0	0.042	0	0	0	---	---	5
6	---	---	0 B	0.551	0	0	0.036	0	0	0	---	---	6
7	---	---	0 B	0.431	0	0	0.031	0	0	0	---	---	7
8	---	---	0 B	0.317	0	0	0.025A	0	0	0	---	---	8
9	---	---	0 B	0.269	0	0	0.023	0	0	0	---	---	9
10	---	---	0 B	0.240	0	0	0.018	0	0	0	---	---	10
11	---	---	0 B	0.203	0	0	0.012	0	0	0	---	---	11
12	---	---	0 B	0.150	0	0	0.004	0	0	0	---	---	12
13	---	---	0 B	0.229	0	0	0	0	0	0	---	---	13
14	---	---	0 B	0.270	0	0	0	0	0	0	---	---	14
15	---	---	0 B	0.121	0	0	0	0	0	0	---	---	15
16	---	---	0 B	0.084	0	0	0	0	0	0	---	---	16
17	---	---	0 B	0.085	0	0	0	0	0	0	---	---	17
18	---	---	0 B	0.052	0	0	0	0	0	0	---	---	18
19	---	---	0 B	0.038	0	0	0	0	0	0	---	---	19
20	---	---	0 B	0.021	0	0	0	0	0	0	---	---	20
21	---	---	0 B	0.013	0	0	0	0	0	0	---	---	21
22	---	---	0 B	0.010	0	0.592	0	0	0	0	---	---	22
23	---	---	0 B	0.008	0	0.824	0	0	0	0	---	---	23
24	---	---	0 B	0.002	0	0.551	0	0	0	0	---	---	24
25	---	---	0 B	0	0	0.477	0	0	0	0	---	---	25
26	---	---	0 B	0	0	0.457	0	0	0	0	---	---	26
27	---	---	0 B	0	0	0.364	0	0	0	0	---	---	27
28	---	---	0 B	0	0	0.255	0	0	0	0	---	---	28
29	---		0 B	0	0	0.147	0	0	0	0	---	---	29
30	---		0.068B	0	0	0.102	0	0	0	0	---	---	30
31	---		0.126B		0		0	0		0A		---	31
TOTAL	---	---	0.193	5.615	0	3.809	0.436	0	0	0	---	---	TOTAL
MEAN	---	---	0.006	0.187	0	0.127	0.014	0	0	0	---	---	MEAN
MAX	---	---	0.125	0.613	0	0.824	0.069	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.041
MAXIMUM DAILY, 0.824 ON JUN 23
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
0.976 AT 20:57 CST ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 34 N
LONG 97 15 50 W
DRAINAGE AREA, 11.4 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	37.7
FEB	---	AUG	0
MAR	16.7	SEP	0
APR 485		OCT	0
MAY	0	NOV	---
JUN 329		DEC	---

TOTAL DISCHARGE, 868 dam³

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.289B	0.002	0.002	0.113	0	0.001E	0.008	---	---	1
2	---	---	0 B	0.425B	0.002	0.007	0.161	0.001	0.001E	0	---	---	2
3	---	---	0 B	0.781B	0.002	0.021	0.113	0	0.001E	0.002	---	---	3
4	---	---	0 B	0.754B	0.001	0.015	0.087	0.001E	0.001E	0.002	---	---	4
5	---	---	0 B	0.702B	0.001	0.010	0.007	0.001E	0.001E	0.001E	---	---	5
6	---	---	0 B	0.320	0.003	0.006	0	0.001E	0.001E	0.001E	---	---	6
7	---	---	0 B	0.273	0.005	0.007	0.003	0.001E	0.001E	0.001E	---	---	7
8	---	---	0 B	0.377	0.004	0.012	0.003	0.001E	0.002	0.001E	---	---	8
9	---	---	0 B	0.334	0.004	0.010	0.001	0.001E	0	0.001E	---	---	9
10	---	---	0 B	0.313	0.003	0.009	0	0.001E	0.001E	0.001E	---	---	10
11	---	---	0 B	0.279	0.002	0.003	0	0.001E	0.001E	0.001E	---	---	11
12	---	---	0 B	0.235	0.002	0.002	0.001E	0.001E	0.001E	0.001E	---	---	12
13	---	---	0 B	0.237	0.007	0.116	0.001E	0.001E	0.001E	0.001E	---	---	13
14	---	---	0 B	0.216	0.005	0.016	0.001E	0.001E	0.001E	0.001E	---	---	14
15	---	---	0.001B	0.183	0.002	0.046	0.001E	0.001E	0.001E	0.001E	---	---	15
16	---	---	0.002B	0.120	0.002	0.018	0.001E	0.001E	0.001E	0.001E	---	---	16
17	---	---	0 B	0.085	0.002	0.014	0.001	0.001E	0	0.001E	---	---	17
18	---	---	0 B	0.071	0.003	0.011	0.001E	0.001E	0.001E	0.001E	---	---	18
19	---	---	0 B	0.080	0.004	0.012	0.001E	0.001E	0.001E	0.001E	---	---	19
20	---	---	0 B	0.045	0.002	0.101	0.001E	0.257	0.001E	0.001E	---	---	20
21	---	---	0 B	0.021	0.001	0.045	0.001E	0.066	0.001E	0.001E	---	---	21
22	---	---	0 B	0.018	0.001	0.983	0.001E	0.001E	0.001E	0.001E	---	---	22
23	---	---	0 B	0.014	0.001	0.821	0.001E	0.009	0.001E	0.001E	---	---	23
24	---	---	0.050B	0.012	0.002	0.561	0.001E	0.036	0.001E	0.001E	---	---	24
25	---	---	0.404B	0.006	0.002	0.453	0.001E	0.004	0.001E	0.001E	---	---	25
26	---	---	0.363B	0.009	0.001	0.324	0.001E	0.001E	0.001E	0.001E	---	---	26
27	---	---	0.307B	0.006	0.002	0.257	0.001E	0.001E	0.001E	0.001E	---	---	27
28	---	---	0.416B	0.005	0.049	0.206	0.001E	0.001E	0	0.001E	---	---	28
29	---		0.672B	0.003	0.011	0.152	0.001E	0.001E	0.001E	0.001E	---	---	29
30	---		0.805B	0.002	0.004	0.185	0.001E	0.001E	0.082	0.001E	---	---	30
31	---		0.438B		0.005		0.001	0.001E		0.001E		---	31
TOTAL	---	---	3.428	6.213	0.120	4.198	0.486	0.396	0.088	0.020	---	---	TOTAL
MEAN	---	---	0.111	0.207	0.004	0.140	0.016	0.013	0.003	0.001	---	---	MEAN
MAX	---	---	0.805	0.754	0.049	0.983	0.161	0.257	0.082	0.008	---	---	MAX
MIN	---	---	0	0.002	0.001	0.002	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.081
MAXIMUM DAILY, 0.983 ON JUN 22
MINIMUM DAILY, 0B ON MAR 1
MAXIMUM INSTANTANEOUS,
2.38 AT 07:58 CST ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 18 N
LONG 97 12 40 W
DRAINAGE AREA, 16.3 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	42.2
FEB	---	AUG	34.2
MAR	296	SEP	7.60
APR	537	OCT	3.37
MAY	12.0	NOV	---
JUN	363	DEC	---

TOTAL DISCHARGE, 1 300 dam³

TURTLE RIVER NEAR LAURIER - STATION NO. 09LJ007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.1048	0.1438	6.93A	3.12	3.80	0.770	0.111E	0.178	---	---	1
2	---	---	0.1048	0.1398	5.82A	3.00	3.24	0.634	0.107E	0.203	---	---	2
3	---	---	0.1048	0.1168	5.40A	4.86	2.76	0.653	0.105E	0.241	---	---	3
4	---	---	0.1048	0.1048	5.13A	7.20	2.65	0.580	0.101E	0.285	---	---	4
5	---	---	0.1048	0.1048	4.86A	7.51	3.34	0.523	0.098E	0.414	---	---	5
6	---	---	0.1048	0.1108	4.74A	5.36	2.52	0.461	0.095E	0.380	---	---	6
7	---	---	0.1048	2.35 B	3.95A	4.14	1.80	0.359	0.1196	0.331	---	---	7
8	---	---	0.1048	3.38 B	3.61E	3.84	1.64	0.322	0.121	0.290	---	---	8
9	---	---	0.1048	3.22 B	3.55E	3.57	1.39	0.303	0.121	0.263	---	---	9
10	---	---	0.1048	23.4 B	3.59E	3.18	3.93	0.302	0.183	0.258	---	---	10
11	---	---	0.1048	28.0 B	3.60E	3.76	13.9	0.282	0.138	0.644	---	---	11
12	---	---	0.1048	19.0 B	3.70A	2.84	8.61	0.276	0.142	0.619	---	---	12
13	---	---	0.1048	8.04 B	4.24	2.84	4.20	0.267	0.133	0.486	---	---	13
14	---	---	0.1048	7.18 B	4.35	3.14	3.73	0.303	0.136	0.418	---	---	14
15	---	---	0.1048	6.78 B	3.88	3.88	1.97	0.189	0.138	0.417	---	---	15
16	---	---	0.1048	3.78 B	4.84	4.36	13.5	0.184	0.150	0.353	---	---	16
17	---	---	0.1048	4.06 B	10.0	3.16	15.5	0.168	0.161	0.307	---	---	17
18	---	---	0.1048	3.55 B	10.0	2.61	8.48	0.165	0.148	0.288	---	---	18
19	---	---	0.1048	11.4 B	20.0	3.04	4.78	0.138	0.129	0.260	---	---	19
20	---	---	0.1048	41.4 B	18.3	3.16	3.06	0.116	0.132	0.330	---	---	20
21	---	---	0.1048	44.7 B	12.0	3.01	2.27	0.130	0.126	0.317	---	---	21
22	---	---	0.1048	31.4 B	10.0	3.03	1.77	0.133	0.142	0.305	---	---	22
23	---	---	0.1048	27.4 B	8.39	2.22	1.48	0.127	0.131	0.312	---	---	23
24	---	---	0.1048	30.3 B	6.76	1.83	1.30	0.154	0.121	0.322	---	---	24
25	---	---	0.1048	33.0 B	5.67	1.78	1.11	0.193	0.103	0.309	---	---	25
26	---	---	0.1048	27.1 B	5.00	1.50	0.986	0.168	0.138	0.289	---	---	26
27	---	---	0.1048	17.8	4.60	1.35	0.896	0.148	0.077	0.304	---	---	27
28	---	---	0.1048	11.4	4.45	1.25	0.787	0.163	0.080	0.278	---	---	28
29	---		0.1048	8.84	3.93	1.13	0.695	0.1398	0.078	0.278	---	---	29
30	---		0.1688	7.19	3.63	1.83	0.653	0.1258	0.098	0.282	---	---	30
31	---		0.1888		3.39		0.800	0.1218		0.276		---	31
TOTAL	---	---	3.372	389.184	207.43	91.78	117.197	8.817	3.828	10.142	---	---	TOTAL
MEAN	---	---	0.108	13.3	6.69	3.06	3.78	0.275	0.121	0.327	---	---	MEAN
MAX	---	---	0.188	44.7	24.0	7.51	15.5	0.770	0.161	0.619	---	---	MAX
MIN	---	---	0.104	0.104	2.51	1.13	0.695	0.116	0.078	0.178	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.43
MAXIMUM DAILY, 44.78 ON APR 21
MINIMUM DAILY, 0.078 ON SEP 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 56 40 N
LONG 99 31 15 W
DRAINAGE AREA, 974 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL TO 100	
FEB	---	AUG	736
MAR	291	SEP	313
APR 24	600	OCT	875
MAY 17	900	NOV	---
JUN 7	930	DEC	---

TOTAL DISCHARGE, 72 600 dam³

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05MG010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.0018	0.2188	0.289	0.058	0.015	0	0	0	---	---	1
2	---	---	0.0018	0.3248	0.262	0.053	0.021	0	0	0	---	---	2
3	---	---	0.0018	0.3048	0.230	0.049	0.034	0	0	0	---	---	3
4	---	---	0.0018	0.4488	0.205	0.047	0.034	0	0	0	---	---	4
5	---	---	0.0018	0.4438	0.195	0.048	0.018	0	0	0	---	---	5
6	---	---	0.0028	0.5248	0.177	0.060	0.013	0	0	0	---	---	6
7	---	---	0.0028	0.6268	0.184	0.065	0.007	0	0	0	---	---	7
8	---	---	0.0028	1.07 B	0.167	0.062	0.0018	0	0	0	---	---	8
9	---	---	0.0028	0.9488	0.134	0.035	0	0	0	0	---	---	9
10	---	---	0.0108	0.7438	0.123	0.039	0	0	0	0	---	---	10
11	---	---	0.0508	0.6218	0.113	0.028	0	0	0	0	---	---	11
12	---	---	0.1008	0.6278	0.110	0.024	0	0	0	0	---	---	12
13	---	---	0.1588	0.6068	0.097	0.022	0	0	0	0	---	---	13
14	---	---	0.0588	0.5648	0.090	0.020	0	0	0	0	---	---	14
15	---	---	0.0378	0.5538	0.089	0.017	0	0	0	0	---	---	15
16	---	---	0.0188	0.5298	0.085	0.017	0	0	0	0	---	---	16
17	---	---	0.0068	0.522	0.085	0.013	0	0	0	0	---	---	17
18	---	---	0.0028	0.563	0.084	0.010	0	0	0	0	---	---	18
19	---	---	0.0078	0.834	0.093	0.008	0	0	0	0	---	---	19
20	---	---	0.0018	0.783	0.109	0.008	0	0	0	0	---	---	20
21	---	---	0.0018	0.803	0.105	0.007	0	0	0	0	---	---	21
22	---	---	0.0018	0.867	0.105	0.022	0	0	0	0	---	---	22
23	---	---	0.0018	0.863	0.105	0.025	0	0	0	0	---	---	23
24	---	---	0.0018	0.863	0.102	0.017	0	0	0	0	---	---	24
25	---	---	0.0018	0.874	0.102	0.000	0	0	0	0	---	---	25
26	---	---	0.0018	0.881	0.100	0.000	0	0	0	0	---	---	26
27	---	---	0.0018	0.480	0.095	0	0	0	0	0	---	---	27
28	---	---	0.0068	0.414	0.079	0	0	0	0	0	---	---	28
29	---		0.1268	0.373	0.067	0.001	0	0	0	0	---	---	29
30	---		0.2778	0.338	0.061	0.011	0	0	0	0	---	---	30
31	---		0.5178		0.058		0	0		0		---	31
TOTAL	---	---	1.381	18.708	3.913	0.727	0.104	0	0	0	---	---	TOTAL
MEAN	---	---	0.045	0.624	0.126	0.024	0.003	0	0	0	---	---	MEAN
MAX	---	---	0.517	1.07	0.289	0.058	0.034	0	0	0	---	---	MAX
MIN	---	---	0.001	0.338	0.058	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.102
MAXIMUM DAILY, 1.070 ON APR 8
MINIMUM DAILY, 0.00 JUN 27
MAXIMUM INSTANTANEOUS,
2.050 AT 19:10 CST ON APR 8

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 59 N
LONG 100 33 57 W
DRAINAGE AREA, 75.1 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	12.4
FEB	---	AUG	0
MAR	120	SEP	0
APR 1	830	OCT	0
MAY	336	NOV	---
JUN	93.8	DEC	---

TOTAL DISCHARGE, 2 190 dam³

UPPER GRANDVIEW RESERVOIR NEAR MERRIDALE - STATION NO. 05LJ011

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	624.008	623.982	623.889	---	624.377	624.848	625.017	---	624.255	624.173	624.127	624.084	1
2	624.005	623.950	623.888	---	624.425	624.874	625.014	624.615	624.243	624.168	624.112	624.084	2
3	624.003	623.944	623.886	---	624.462	624.888	625.014	624.582	624.240	624.165	624.108	624.080	3
4	624.002	623.944	623.883	---	624.480	624.944	625.008	624.569	624.224	624.166	624.106	624.078	4
5	624.002	623.941	623.883	---	624.490	624.919	---	624.541	624.221	624.162	624.116	624.075	5
6	623.999	623.935	623.890	---	624.509	624.895	---	624.514	624.230	624.170	624.109	624.078	6
7	623.994	623.935	623.904	---	624.511	624.876	---	624.493	624.219	624.170	624.121	624.075	7
8	623.996	623.935	623.901	---	624.508	624.864	---	624.482	624.215	624.163	624.112	624.075	8
9	623.994	623.932	623.898	---	624.520	624.845	---	624.471	624.218	624.154	624.099	624.072	9
10	623.993	623.929	623.894	---	624.523	624.840	---	624.459	624.227	624.175	624.088	624.072	10
11	623.992	623.926	623.893	---	624.529	624.819	---	---	624.234	624.187	624.086	624.075	11
12	623.990	623.923	623.893	---	624.538	624.816	---	---	624.218	624.187	624.084	624.072	12
13	623.987	623.923	623.892	---	624.560	624.828	---	---	624.218	624.197	624.089	624.069	13
14	623.987	623.920	623.885	---	624.567	624.849	---	---	624.258	624.187	624.102	624.069	14
15	623.984	623.913	623.886	---	624.567	624.877	---	---	624.203	624.183	624.086	624.069	15
16	623.981	623.913	623.885	---	624.580	624.880	---	---	624.181	---	624.083	624.068	16
17	623.981	623.910	623.886	---	624.585	624.877	---	---	624.184	---	624.080	624.065	17
18	623.981	623.913	623.880	---	624.599	624.861	---	---	624.221	---	624.080	624.065	18
19	623.977	623.910	623.880	---	624.624	624.871	---	---	624.230	---	624.080	624.054	19
20	623.977	623.910	623.877	---	624.642	624.861	---	---	624.200	---	624.080	---	20
21	623.977	623.904	623.877	---	624.697	624.813	---	---	624.187	---	624.083	---	21
22	623.974	623.901	623.880	---	624.743	624.861	---	624.304	624.183	---	624.080	---	22
23	623.971	623.901	623.880	---	624.818	624.848	---	624.281	624.178	---	624.080	---	23
24	623.971	623.893	---	---	624.904	624.831	---	624.265	624.178	---	624.067	---	24
25	623.965	623.892	---	---	624.953	624.904	---	624.284	624.174	---	624.067	---	25
26	623.974	623.892	---	---	624.986	624.953	---	624.285	624.170	624.146	624.067	---	26
27	623.971	623.892	---	624.124	625.011	624.992	---	624.281	624.175	624.146	624.067	---	27
28	623.968	623.889	---	624.185	625.023	625.017	---	624.285	624.183	624.142	624.067	---	28
29	623.965		---	624.253	625.023	625.023	---	624.275	624.170	624.130	624.067	---	29
30	623.959		---	624.310	625.030	625.026	---	624.270	624.170	624.127	624.064	---	30
31	623.956		---		625.008		---	624.281		624.124		---	31
MEAN	623.983	623.919	---	---	624.655	624.887	---	---	624.206	---	624.086	---	MEAN
MAX	624.008	623.953	---	---	625.023	625.026	---	---	624.255	---	624.127	---	MAX
MIN	623.956	623.889	---	---	624.377	624.813	---	---	624.170	---	624.064	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 23 51 N
LONG 101 02 05 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.455B	0.121B	17.0	11.2	15.0	2.87	0.414	0.122	---	---	1
2	---	---	0.455B	0.108B	16.4	9.46	14.4	2.77	0.412	0.101	---	---	2
3	---	---	0.455B	0.096B	12.9	8.88	13.4	2.61	0.330	0.083	---	---	3
4	---	---	0.455B	0.089B	11.8	8.43	13.2	2.45	0.373	0.064	---	---	4
5	---	---	0.455B	0.085B	10.7	8.30	14.8	2.40	0.401	0.047	---	---	5
6	---	---	0.455B	0.063B	9.58	8.16	14.1	2.20	0.409	0.010	---	---	6
7	---	---	0.455B	0.070B	8.85	7.53	13.9	2.02	0.397	0.010	---	---	7
8	---	---	0.460B	0.067B	8.07	7.43	13.0	1.85	0.391	0.010	---	---	8
9	---	---	0.460B	0.090B	7.39	7.32	11.4	1.70	0.443	0.020	---	---	9
10	---	---	0.460B	0.108B	8.92	7.36	10.9	1.62	0.402	0.034	---	---	10
11	---	---	0.460B	0.240B	8.35	6.90	16.6	1.46	0.375	0.030	---	---	11
12	---	---	0.460B	0.646B	8.24	6.93	15.6	1.35	0.353	0.393	---	---	12
13	---	---	0.460B	0.879B	8.52	6.56	16.1	1.15	0.334	0.430	---	---	13
14	---	---	0.460B	0.531B	8.94	6.68	13.2	0.986	0.310	0.369	---	---	14
15	---	---	0.460B	0.463B	8.45	11.8	10.4	0.885	0.383	0.637	---	---	15
16	---	---	0.460B	0.413B	8.15	11.3	8.51	0.810	0.381	0.653	---	---	16
17	---	---	0.434B	0.356B	7.45	10.4	8.56	0.765	0.303	0.602	---	---	17
18	---	---	0.406B	0.361B	9.23	9.61	8.68	0.702	0.230	0.567	---	---	18
19	---	---	0.376B	0.550B	10.8	8.89	8.38	0.661	0.176	0.514	---	---	19
20	---	---	0.348B	2.63 B	12.9	8.12	8.03	0.644	0.168	0.464	---	---	20
21	---	---	0.322B	12.4 B	11.4	7.51	6.24	0.493	0.150	0.406	---	---	21
22	---	---	0.293B	25.9 B	10.3	7.16	5.85	0.470	0.143	0.370	---	---	22
23	---	---	0.263B	68.4 B	10.6	3.79	5.66	0.460	0.132	0.386	---	---	23
24	---	---	0.241B	115	10.6	4.80	5.53	0.505	0.122	0.419	---	---	24
25	---	---	0.233B	291	11.0	27.2	5.13	0.637	0.121	0.334	---	---	25
26	---	---	0.200B	241	11.2	63.7	4.77	0.649	0.103	0.369	---	---	26
27	---	---	0.185B	129	10.7	65.7	4.30	0.643	0.110	0.333	---	---	27
28	---	---	0.171B	68.4	10.4	38.3	3.73	0.450	0.116	0.709	---	---	28
29	---		0.164B	35.9	9.63	22.8	3.36	0.639	0.127	0.630	---	---	29
30	---		0.161B	22.3	9.40	16.0	3.37	0.713	0.129	0.571	---	---	30
31	---		0.133B		8.53		3.13	0.660		0.477		---	31
TOTAL	---	---	11.210	1 026.516	300.40	463.81	308.95	27.714	7.987	10.000	---	---	TOTAL
MEAN	---	---	0.362	34.2	9.69	15.4	9.94	1.23	0.267	0.325	---	---	MEAN
MAX	---	---	0.460	291	17.0	65.7	16.6	2.87	0.443	0.709	---	---	MAX
MIN	---	---	0.133	0.078	8.05	6.56	3.13	0.440	0.103	0.010	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.62
MAXIMUM DAILY, 291 ON APR 25
MINIMUM DAILY, 0.010 ON OCT 6
MAXIMUM INSTANTANEOUS,
333 AT 16:05 CST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 10 45 N
LONG 100 00 20 W
DRAINAGE AREA, 2 470 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	26 600
FEB	---	AUG	2 390
MAR	969	SEP	691
APR	89 000	OCT	860
MAY	26 000	NOV	---
JUN	40 000	DEC	---

TOTAL DISCHARGE, 187 000 dam³

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.420B	0.361B	6.100	8.51	8.85	2.21	0.201	0.085	--	---	1
2	---	---	0.420B	0.361B	6.050	5.85	8.22	2.27	0.154	0.244	---	---	2
3	---	---	0.419B	0.340B	6.334	6.60	7.48	2.20	0.131	0.369	---	---	3
4	---	---	0.415B	0.340B	3.974	5.80	8.89	2.13	0.132	0.420	---	---	4
5	---	---	0.415B	0.360B	3.45	5.41	8.14	2.01	0.139	0.415	---	---	5
6	---	---	0.418B	0.360B	3.29	5.03	7.86	1.88	0.118	0.453	---	---	6
7	---	---	0.418B	0.385B	2.86	4.83	7.05	1.77	0.108	0.447	---	---	7
8	---	---	0.418B	0.385B	2.88	4.78	8.29	1.65	0.101	0.502	---	---	8
9	---	---	0.417B	0.400B	2.80	4.65	8.58	1.54	0.192	0.397	---	---	9
10	---	---	0.417B	0.410B	2.95	4.48	8.86	1.45	0.160	0.353	---	---	10
11	---	---	0.417B	0.405B	2.63	4.22	9.41	1.26	0.167	0.371	---	---	11
12	---	---	0.416B	0.380B	2.32	3.92	10.3	1.36	0.200	0.548	---	---	12
13	---	---	0.416B	0.370B	2.40	7.48	7.70	1.17	0.165	0.353	---	---	13
14	---	---	0.416B	0.384B	2.40	9.95	5.76	1.12	0.153	0.324	---	---	14
15	---	---	0.415B	0.356B	2.36	7.37	5.00	1.02	0.127	0.298	---	---	15
16	---	---	0.416B	0.363B	2.44	6.00	4.85	0.975	0.125	0.288	---	---	16
17	---	---	0.415B	0.350B	2.67	5.80	4.77	0.883	0.116	0.272	---	---	17
18	---	---	0.410B	0.365B	5.72	5.16	4.65	0.860	0.099	0.213	---	---	18
19	---	---	0.400B	0.370B	6.56	4.87	4.23	0.760	0.104	0.185	---	---	19
20	---	---	0.380B	0.400B	4.89	4.56	4.02	0.650	0.087	0.174	---	---	20
21	---	---	0.370B	0.628B	4.35	4.23	3.71	0.605	0.080	0.244	---	---	21
22	---	---	0.360B	3.97 B	4.53	4.02	3.47	0.581	0.082	0.522	---	---	22
23	---	---	0.350B	31.8 B	4.53	3.87	3.38	0.515	0.074	0.516	---	---	23
24	---	---	0.350B	76.4 A	6.82	3.66	3.28	0.437	0.089	0.498	---	---	24
25	---	---	0.347B	73.7 A	5.07	8.95	3.07	0.409	0.066	0.432	---	---	25
26	---	---	0.365B	61.7 A	5.87	10.1	2.93	0.883	0.081	0.403	---	---	26
27	---	---	0.365B	27.8 A	8.37	11.6	2.77	0.567	0.080	0.369	---	---	27
28	---	---	0.364B	16.1 A	6.36	8.19	2.85	0.387	0.087	0.370	---	---	28
29	---		0.364B	12.8 A	8.95	7.21	2.56	0.283	0.080	0.414	---	---	29
30	---		0.362B	8.44 A	8.10	8.78	2.48	0.317	0.084	0.440	---	---	30
31	---		0.362B		8.58		2.46	0.247		0.428		---	31
TOTAL	---	---	12.135	305.758	183.95	189.30	183.26	35.037	3.815	11.350	---	---	TOTAL
MEAN	---	---	0.391	10.2	5.81	6.30	6.27	1.13	0.127	0.366	---	---	MEAN
MAX	---	---	0.420	76.4	8.58	10.1	10.3	2.31	0.200	0.548	---	---	MAX
MIN	---	---	0.342	0.360	2.32	3.66	2.46	0.247	0.074	0.085	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.53
MAXIMUM DAILY, 76.4 ON APR 24
MINIMUM DAILY, 0.074 ON SEP 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 11 10 N
LONG 100 41 40 W
DRAINAGE AREA, 1 720 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	16 100
FEB	---	AUG	3 030
MAR	1 050	SEP	330
APR	26 400	OCT	981
MAY	12 400	NOV	---
JUN	16 400	DEC	---

TOTAL DISCHARGE, 74 700 dam³

VERMILION RESERVOIR NEAR DAUPHIN - STATION NO. 05LJ046

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	387.605	387.177	386.850	386.313	388.610	388.270	388.238	386.927	385.227	385.006	385.460	385.785	1
2	387.653	387.153	386.830	386.109	388.590	388.306	388.219	386.830	385.180	385.009	385.469	385.781	2
3	387.639	387.139	386.871	386.104	388.577	387.457	388.257	386.728	385.166	385.014	385.475	385.784	3
4	387.636	387.115	386.605	386.173	388.520	387.911	388.381	386.630	385.103	385.025	385.499	385.779	4
5	387.611	387.094	386.591	386.183	388.316	387.873	388.305	386.520	385.073	385.047	385.512	385.773	5
6	387.593	387.072	386.552	386.150	387.539	388.121	388.255	386.415	385.060	385.058	385.522	385.763	6
7	387.584	387.064	386.584	386.161	386.635	388.288	388.236	386.302	385.016	385.074	385.538	385.756	7
8	387.572	387.038	386.581	386.126	385.775	388.353	388.300	386.181	384.998	385.086	385.547	385.748	8
9	387.561	387.021	386.566	386.137	385.628	388.380	388.270	386.064	385.002	385.092	385.563	385.737	9
10	387.548	387.000	386.565	386.192	385.630	388.369	---	385.960	385.007	385.112	385.575	385.730	10
11	387.533	386.976	386.527	386.178	385.628	388.399	---	385.939	385.005	385.161	385.585	385.722	11
12	387.520	386.948	386.519	386.187	385.639	388.365	---	385.900	385.006	385.175	385.595	385.712	12
13	387.506	386.939	386.494	386.221	385.692	388.361	---	385.860	385.007	385.205	385.608	385.701	13
14	387.488	386.910	386.479	386.229	385.880	388.353	---	385.835	385.007	385.232	385.619	385.690	14
15	387.471	386.890	386.461	386.260	386.052	388.358	---	385.794	385.006	385.255	385.629	385.680	15
16	387.457	386.867	386.445	386.276	386.231	388.377	---	385.763	385.000	385.273	385.641	385.667	16
17	387.441	386.851	386.430	386.287	386.526	388.367	---	385.726	385.011	385.289	385.654	385.655	17
18	387.422	386.835	386.415	386.294	387.661	388.345	---	385.697	385.013	385.301	385.667	385.643	18
19	387.402	386.819	386.401	386.318	388.721	388.329	---	385.661	384.998	385.314	385.680	385.632	19
20	387.385	386.801	386.384	386.431	388.613	388.323	---	385.618	384.995	385.328	385.704	385.628	20
21	387.368	386.781	386.367	386.784	388.490	388.311	---	385.587	384.993	385.341	385.725	385.623	21
22	387.350	386.765	386.352	387.700	388.355	388.299	---	385.552	384.983	385.354	385.740	385.623	22
23	387.336	386.756	386.337	388.785	388.297	388.289	---	385.530	384.984	385.368	385.764	385.620	23
24	387.320	386.727	386.316	388.084	388.161	388.281	---	385.489	384.990	385.382	385.783	385.615	24
25	387.303	386.708	386.303	388.100	387.717	388.273	---	385.446	384.983	385.391	385.792	385.615	25
26	387.285	386.682	386.366	388.127	387.338	388.280	---	385.410	384.983	385.402	385.793	385.616	26
27	387.266	386.664	386.274	388.950	387.960	388.283	---	385.381	384.980	385.412	385.792	385.615	27
28	387.251	386.660	386.257	388.800	387.848	388.293	387.312A	385.353	384.956	385.423	385.793	385.613	28
29	387.234		386.237	388.712	388.067	388.286	387.212	385.321	384.954	385.431	385.794	385.610	29
30	387.215		386.224	388.693	388.201	388.171	387.128	385.287	384.996	385.442	385.795	385.611	30
31	387.196		386.223		388.337		387.057	385.257		385.454		385.600	31
MEAN	387.405	386.900	386.442	387.905	387.383	388.336	---	385.870	385.027	385.240	385.644	385.682	MEAN
MAX	387.605	387.177	386.850	388.100	388.731	388.380	---	386.927	385.227	385.454	385.795	385.785	MAX
MIN	387.196	386.660	386.223	386.134	385.626	387.457	---	385.257	384.992	385.006	385.460	385.600	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 388.100 ON APR 28
MINIMUM DAILY, 384.952 ON SEP 22
MAXIMUM INSTANTANEOUS,
388.380 AT 01:50 CST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 02 45 N
LONG 100 10 05 W

A - MANUAL GAUGE

REGULATED SINCE 1970

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 1150	0 0780	9.05	1.58	1 33	0 925	0 135	0	---	---	1
2	---	---	0 1150	0 0730	5.05	2.35	1 80	0 930	0 116	0	---	---	2
3	---	---	0 1120	0 0730	7.25	5.72	1 52	0 910	0 102	0	---	---	3
4	---	---	0 1120	0 0710	5.15	3.75	1 71	0 905	0 097	0	---	---	4
5	---	---	0 1080	0 0710	5.15	2.04	1 58	0 894	0 122	0 006	---	---	5
6	---	---	0 1080	0 0680	10.6	1.82	1 58	0 883	0 224	0 007	---	---	6
7	---	---	0 1080	0 0680	9 94	1 73	1 46	0 889	0 235	0 004	---	---	7
8	---	---	0 1080	0 0650	9 43	1 84	1 27	0 853	0 205	0 005	---	---	8
9	---	---	0 1040	0 1200	8 15	2 32	1 23	0 809	0 225	0 002	---	---	9
10	---	---	0 1040	0 0810	2 24	2 33	1 38	0 886	0 180	0 004	---	---	10
11	---	---	0 1010	0 5100	1 59	2 05	1 21	0 884	0 111	0 013	---	---	11
12	---	---	0 1010	0 3030	1 80	1 90	1 85	0 287	0 058	0 035	---	---	12
13	---	---	0 1010	0 1200	1 85	1 73	2 11	0 195	0 040	0 021	---	---	13
14	---	---	0 0980	0 0650	1 80	1 67	1 83	0 167	0 025	0 004	---	---	14
15	---	---	0 0980	0 0650	1 62	1 84	1 52	0 153	0 006	0 004	---	---	15
16	---	---	0 0980	0 0630	1 51	1 93	1 31	0 143	0	0 004	---	---	16
17	---	---	0 0950	0 0630	2 78	1 97	1 19	0 148	0	0 004	---	---	17
18	---	---	0 0950	0 0600	10.4	1.76	1 13 E	0 147	0	0 005	---	---	18
19	---	---	0 0930	0 5230	11 0	1 87	1 10 E	0 119	0	0 102	---	---	19
20	---	---	0 0930	3 01 0	10 0	1 40	1 00 E	0 118	0	0 151	---	---	20
21	---	---	0 0900	15 0 0	16 4	1 36	1 00 E	0 108	0	0 158	---	---	21
22	---	---	0 0900	84 4 0	11 5	1 34	1 07 E	0 116	0	0 213	---	---	22
23	---	---	0 0870	73 7	9 61	1 31	1 00 E	0 112	0	0 208	---	---	23
24	---	---	0 0870	84 3	8 70	1 36	1 05 E	0 123	0	0 223	---	---	24
25	---	---	0 0840	85 8	8 85	1 48	1 05 E	0 294	0	0 236	---	---	25
26	---	---	0 0840	40 8	8 58	1 35	1 04 E	0 202	0	0 201	---	---	26
27	---	---	0 0820	35 0	3 08	1 35	1 00 E	0 170	0	0 158	---	---	27
28	---	---	0 0820	32 0	1 77	1 33	0 955	0 158	0	0 136	---	---	28
29	---		0 0790	16 5	1 80	1 35	0 985	0 184	0	0 116	---	---	29
30	---		0 0790	12 1	1 84	1 32	1 07	0 142	0	0 104	---	---	30
31	---		0 0760		1 90		0 946	0 145		0 110		---	31
TOTAL	---	---	2 985	436 264	200 27	59 05	40 087	13 754	1 910	2 391	---	---	TOTAL
MEAN	---	---	0 096	14 5	6 45	1 95	1 29	0 411	0 064	0 077	---	---	MEAN
MAX	---	---	0 115	84 2	16 5	6 72	2 11	0 930	0 235	0 236	---	---	MAX
MIN	---	---	0 076	0 080	1 42	1 28	0 946	0 105	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3 99
MAXIMUM DAILY, 84 2 BB APR 24
MINIMUM DAILY, 0 BB SEP 16
MAXIMUM INSTANTANEOUS,
90 0 AT 12 32 CST ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 11 00 N
LONG 100 00 45 W
DRAINAGE AREA, 873 km²

0 - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1970

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 480
FEB	---	AUG	1 100
MAR	268	SEP	195
APR	37 700	OCT	207
MAY	17 300	NOV	---
JUN	5 150	DEC	---

TOTAL DISCHARGE, 65 300 dam³

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1 BB B	0 001	0	0	0	0	0	---	---	1
2	---	---	0 B	1 81 B	0	0	0	0	0	0	---	---	2
3	---	---	0 B	1 38 B	0	0	0 003	0	0	0	---	---	3
4	---	---	0 B	1 01 B	0	0	0 001	0	0	0	---	---	4
5	---	---	0 B	0 BBB	0 003	0	0	0	0	0	---	---	5
6	---	---	0 B	0 857	0 002	0	0	0	0	0	---	---	6
7	---	---	0 B	0 587	0 001	0	0	0	0	0	---	---	7
8	---	---	0 B	0 422	0	0	0	0	0	0	---	---	8
9	---	---	0 B	0 312	0	0	0	0	0	0	---	---	9
10	---	---	0 B	0 270	0	0	0	0	0	0	---	---	10
11	---	---	0 B	0 188	0	0	0	0	0	0	---	---	11
12	---	---	0 0018	0 188	0	0	0	0	0	0	---	---	12
13	---	---	0 0500	0 200	0	0	0	0	0	0	---	---	13
14	---	---	0 5000	0 110	0 008	0	0	0	0	0	---	---	14
15	---	---	1 BB B	0 100	0 015	0	0	0	0	0	---	---	15
16	---	---	1 24 B	0 087	0 004	0	0	0	0	0	---	---	16
17	---	---	1 BB B	0 050	0 003	0	0	0	0	0	---	---	17
18	---	---	0 0500	0 033	0 003	0	0	0	0	0	---	---	18
19	---	---	0 0100	0 024	0 004	0	0	0	0	0	---	---	19
20	---	---	0 0018	0 019	0 003	0	0	0	0	0	---	---	20
21	---	---	0 0018	0 020	0 002	0	0	0	0	0	---	---	21
22	---	---	0 0018	0 013	0 002	0	0	0	0	0	---	---	22
23	---	---	0 0018	0 008	0 002	0	0	0	0	0	---	---	23
24	---	---	0 0018	0 004	0 001	0	0	0	0	0	---	---	24
25	---	---	0 0050	0 003	0	0	0	0	0	0	---	---	25
26	---	---	0 0100	0 002	0	0	0	0	0	0	---	---	26
27	---	---	0 0500	0 002	0	0	0	0	0	0	---	---	27
28	---	---	0 2000	0 001	0	0	0	0	0	0	---	---	28
29	---		0 4300	0 001	0	0	0	0	0	0	---	---	29
30	---		1 33 B	0 001	0	0	0	0	0	0	---	---	30
31	---		1 02 B		0		0		0			---	31
TOTAL	---	---	6 199	10 033	0 084	0	0 040	0	0	0	---	---	TOTAL
MEAN	---	---	0 204	0 334	0 002	0	0	0	0	0	---	---	MEAN
MAX	---	---	1 02	1 BB	0 015	0	0 003	0	0	0	---	---	MAX
MIN	---	---	0	0 001	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0 075
MAXIMUM DAILY, 1 020 BB MAR 31
MINIMUM DAILY, 0 00 BB MAR 1
MAXIMUM INSTANTANEOUS,
3 040 AT 11:10 CST ON APR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 00 N
LONG 100 42 00 W
DRAINAGE AREA, 104 km²

0 - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0 35
FEB	---	AUG	0
MAR	798	SEP	0
APR	838	OCT	0
MAY	4 07	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 1 680 dam³

WATERMEN LAKE AT SKOWMAN - STATION NO 05LM005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	251.711	---	251.645A	251.672	251.824A	252.172	252.378	252.384	252.187	252.130	252.129	252.112	1
2	251.709	---	251.645E	251.672	251.828E	252.170	252.364	252.395	252.188	252.131	252.102	252.118	2
3	251.711	---	251.646A	251.659	251.854A	252.223	252.313	252.390	252.187	252.131	252.026	252.125	3
4	251.711	---	251.646E	251.655	251.878E	252.232	252.318	252.389	252.178	252.130	252.051	252.129	4
5	251.711	---	251.645A	251.636	251.904A	252.230	252.357	252.382	252.184	252.150	252.102	252.130	5
6	251.709	---	251.660E	251.641	251.918	252.222	252.360	252.359	252.222	252.127	252.095	252.131	6
7	251.709	---	251.673A	251.640	251.934	252.206	252.395	252.361	252.188	252.120	252.119	252.132	7
8	251.710	---	251.673E	251.630	251.954	252.226	252.389	252.374	252.184	252.116	252.116	252.129	8
9	251.709	---	251.678A	251.631	251.961	252.209	252.382	252.351	252.177	252.082	252.098	252.129	9
10	251.709	---	251.679E	251.633	252.001	252.233	252.313	252.396	252.197	252.168	252.091	252.136	10
11	251.705	---	251.680A	251.617	252.010	252.231	252.310	252.387	252.179	252.178	252.085	252.138	11
12	251.710	---	251.680E	251.644A	252.028	252.233	252.276	252.359	252.176	252.148	252.085	252.136	12
13	251.710	---	251.681A	251.644E	252.058	252.262	252.301	252.379	252.174	252.133	252.093	252.138	13
14	251.713	251.680A	251.677E	251.644A	252.018	252.270	252.278	252.262	252.183	252.145	252.108	252.139	14
15	251.712	251.683E	251.673A	251.660E	252.028	252.284	252.309	252.288	252.184	252.131	252.092	252.138	15
16	251.713	251.688E	251.672	251.668A	252.041	252.234	252.308	252.218	252.115	252.147	252.082	252.135	16
17	251.710	251.689A	251.633	251.668E	252.071	252.232	252.300	252.250	252.080	252.145	252.083	252.134	17
18	251.709	251.689E	251.627	251.671A	252.078	252.216	252.317	252.237	252.143	252.125	252.084	252.133	18
19	251.709	251.670A	251.630	251.670E	252.115	252.238	252.317	252.262	252.160	252.110	252.096	252.132	19
20	251.710	251.667E	251.634	251.682A	252.091	252.267	252.335	252.295	252.185	252.077	252.130	252.134	20
21	251.709	251.663A	251.635	251.687E	252.152	252.251	252.303	252.230	252.189	252.125	252.154	252.134	21
22	251.709	251.663E	251.614	251.691A	252.148	252.274	252.300	252.218	252.184	252.108	252.105	252.132	22
23	251.707	251.662A	251.614	251.698E	252.162	252.282	252.313	252.210	252.167	252.119	252.100	252.131	23
24	251.704	251.660E	251.625	251.701A	252.151	252.277	252.300	252.213	252.187	252.126	252.099	252.132	24
25	251.701	251.658A	251.644	251.710E	252.164	252.281	252.283	252.226	252.164	252.112	252.085	252.137	25
26	251.699	251.653E	251.647	251.731A	252.155	252.309	252.281	252.226	252.158	252.108	252.101	252.138	26
27	251.702	251.648A	251.628	251.734E	252.184	252.279	252.302	252.214	252.148	252.128	252.095	252.135	27
28	251.705	251.648E	251.618	251.738A	252.237	252.275	252.300	252.223	252.170	252.125	252.081	252.134	28
29	251.706		251.622	251.758E	252.184	252.272	252.304	252.214	252.133	252.093	252.093	252.134	29
30	251.706		251.630	251.778A	252.202	252.278	252.295	252.206	252.137	252.108	252.107	252.136	30
31	251.705		251.651		252.173		252.301	252.193		252.096		252.134	31
MEAN	251.708	---	251.648	251.675	252.069	252.248	252.324	252.286	252.248	252.185	252.124	252.134	MEAN
MAX	251.713	---	251.681	251.778	252.237	252.309	252.325	252.302	252.222	252.178	252.154	252.139	MAX
MIN	251.699	---	251.614	251.617	251.824	252.170	252.267	252.193	252.080	252.077	252.026	252.112	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 252.325 ON JUL 30

MAXIMUM INSTANTANEOUS,
252.480 AT 21:51 CST ON AUG 9

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 58 20 N
LONG 99 35 20 W

A - MANUAL GAUGE

E - ESTIMATED

WATERMEN RIVER NEAR WATERMEN - STATION NO 05LM004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	13.70	10.5 E	4.358	3.708	85.80	119	134	128	109	102	102	81.40	1
2	13.58	10.4 E	4.278	3.498	70.10	116	130	130	99.3	100	102	80.50	2
3	13.70	10.1 E	4.198	3.358	74.80	130	138	130	104	103	77.4	83.60	3
4	13.58	9.780	3.938	3.938	74.20	135	153	137	109	98.7	74.8	82.20	4
5	13.58	9.520	4.218	2.738	79.20	133	130	135	104	100	95.7	83.80	5
6	13.58	9.060	4.960	3.848	81.8	134	131	119	120	102	98.6	81.70	6
7	13.58	9.139	5.910	3.168	82.1	132	133	134	103	99.6	99.3	81.20	7
8	13.48	8.898	6.938	3.488	73.6	134	137	128	108	97.7	109	80.60	8
9	13.48	8.488	7.418	3.888	80.1	123	139	119	109	98.7	98.6	83.40	9
10	13.78	8.408	7.158	4.488	89.3	123	136	132	118	101	99.6	84.90	10
11	13.88	8.388	6.838	4.888	108	128	143	134	112	116	98.0	85.10	11
12	13.88	8.208	6.648	4.988	102	124	136	117	109	108	87.3	83.70	12
13	13.88	8.178	6.868	5.148	118	143	133	130	109	88.0	83.5	81.70	13
14	13.78	8.078	6.478	5.218	87.5	138	134	113	105	104	101	81.10	14
15	13.48	7.738	6.268	5.358	87.1	140	133	126	106	99.6	97.4	80.00	15
16	13.48	7.488	6.018	5.388	95.7	132	137	112	95.7	107	78.3	86.30	16
17	13.38	7.138	5.958	5.408	103	126	129	116	78.8	107	84.3	86.40	17
18	12.88	6.758	5.778	5.588	100	117	135	117	104	101	93.5	84.70	18
19	12.78	6.528	5.518	5.298	114	131	135	138	110	95.7	87.9	83.10	19
20	12.68	6.008	5.268	6.728	102	132	138	111	120	82.3	106	81.30	20
21	12.48	5.718	4.988	7.188	118	129	132	116	121	95.8	118	80.40	21
22	12.38	5.498	4.688	7.788	118	135	131	115	112	97.3	85.3	87.50	22
23	12.38	5.288	4.258	7.798	121	137	138	111	86.6	95.0	82.0	86.20	23
24	12.18	5.008	3.978	8.028	118	134	133	111	108	102	94.7	84.30	24
25	11.98	4.688	4.008	10.6 E	115	139	139	114	108	98.6	88.78	83.10	25
26	11.88	4.618	3.888	11.8 E	109	148	134	118	103	96.7	88.08	80.60	26
27	11.38	4.618	3.788	13.0 E	122	135	131	111	97.9	103	81.30	80.00	27
28	11.38	4.628	3.618	13.0 E	108	133	132	114	118	107	81.10	80.20	28
29	11.38		3.228	20.2 E	130	131	134	113	103	93.6	88.88	29.60	29
30	11.08		3.268	63.8 E	133	134	131	111	101	98.4	81.30	26.60	30
31	10.88		3.788		133		134	107		83.7		25.20	31
TOTAL	395.0	208.86	166.63	262.89	3 187.8	3 942	4 132	3 713	3 187.4	3 101.9	2 808.2	1 607.4	TOTAL
MEAN	12.8	7.66	5.12	8.77	102	131	133	120	107	100	88.8	48.7	MEAN
MAX	13.7	10.8	7.41	63.8	108	160	163	135	121	118	118	83.8	MAX
MIN	10.8	4.61	3.26	3.72	85.8	116	126	107	78.8	83.3	88.7	25.2	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 51 10 N
LONG 99 32 00 W
DRAINAGE AREA, 95 300 km²

E - ICE CONDITIONS

NATURAL FLOW

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 72.1
MAXIMUM DAILY, 160 ON JUN 15
MINIMUM DAILY, 2.730 ON APR 9
MAXIMUM INSTANTANEOUS,
176 AT 10:00 CST ON MAY 26

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	34 200	JUL	357 000
FEB	18 100	AUG	321 000
MAR	13 700	SEP	276 000
APR	22 700	OCT	268 000
MAY	273 000	NOV	235 000
JUN	341 000	DEC	135 000

TOTAL DISCHARGE, 2 370 000 dam³

WEAVER LAKE AT OUTLET - STATION NO. 05RE002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	28.171	28.083	27.999	27.972	28.480	29.201	28.931	29.014	28.280	28.019	27.974	---	1
2	28.163	28.072	28.001	27.987	28.523	29.262	28.937	28.983	28.276	28.021	27.997	---	2
3	28.164	28.072	28.010	27.961	28.577	29.328	28.948	28.973	28.165	28.029	27.983	---	3
4	28.158	28.070	28.006	27.961	28.631	29.298	28.950	28.941	28.231	28.017	27.976	---	4
5	28.166	28.061	28.007	27.951	28.672	29.201	28.956	28.895	28.236	27.974	27.968	---	5
6	28.161	28.057	28.001	27.980	28.690	29.245	29.000	28.877	28.227	27.970	27.963	---	6
7	28.155	28.065	28.001	27.980	28.736	29.208	29.038	28.818	28.206	27.985	27.969	---	7
8	28.155	28.060	28.006	27.965	28.844	29.232	29.073	28.804	28.181	27.986	27.963	---	8
9	28.154	28.058	28.010	27.957	28.879	29.141	29.092	28.780	28.186	27.990	27.974	---	9
10	28.144	28.057	28.009	27.965	28.898	29.088	29.145	28.753	28.144	27.982	27.975	---	10
11	28.143	28.058	28.005	27.986	28.969	29.058	29.155	28.726	28.153	27.982	27.974	---	11
12	28.138	28.055	28.004	27.985	29.015	29.127	29.240	28.701	28.144	27.989	27.971	---	12
13	28.124	28.057	28.014	27.983	29.118	29.077	29.272	28.642	28.131	27.987	27.971	---	13
14	28.139	28.052	28.010	27.981	29.091	29.078	29.287	28.642	28.131	27.984	27.966	---	14
15	28.132	28.049	28.004	27.983	29.141	29.081	29.327	28.596	28.127	27.984	27.965	---	15
16	28.127	28.053	28.008	27.972	29.180	29.098	29.306	28.594	28.116	27.948	27.968	---	16
17	28.112	28.047	28.011	27.965	29.225	29.080	29.313	28.581	28.112	27.924	27.968	---	17
18	28.111	28.038	28.005	27.967	29.228	29.079	29.310	28.570	28.047	27.976	27.967	---	18
19	28.115	28.026	28.005	27.963	29.236	29.065	29.313	28.431	28.058	27.963	27.968	---	19
20	28.110	28.027	27.998	27.971	29.272	29.049	29.306	28.500	28.072	27.965	27.970	---	20
21	28.108	28.029	27.991	27.982	29.257	29.018	29.288	28.472	28.060	27.975	27.971	---	21
22	28.110	28.025	27.988	27.988	29.261	29.006	29.234	28.452	28.076	27.983	27.972	---	22
23	28.110	28.031	27.983	28.025	29.302	29.000	29.223	28.437	28.057	27.976	27.974	---	23
24	28.102	28.020	27.984	28.059	29.221	28.998	29.225	28.432	28.031	27.980	27.977	---	24
25	28.098	28.016	27.989	28.116	29.332	29.000	29.199	28.413	28.058	27.970	27.986	---	25
26	28.093	28.012	27.988	28.184	29.361	28.983	29.167	28.389	28.058	27.971	27.991	---	26
27	28.092	28.012	27.986	28.254	29.328	28.950	29.131	28.379	28.066	27.966	27.989	---	27
28	28.085	28.005	27.984	28.315	29.351	28.936	29.100	28.364	28.014	27.953	27.988A	---	28
29	28.080		27.984	28.362	29.357	28.937	29.087	28.353	28.032	27.971	---	---	29
30	28.084		27.985	28.425	29.367	28.926	29.064	28.335	28.039	27.977	---	---	30
31	28.077		27.976		29.314		29.044	28.308		27.977		---	31
MEAN	28.128	28.045	27.999	28.032	29.063	29.087	29.151	28.619	28.124	27.981	---	---	MEAN
MAX	28.171	28.083	28.014	28.425	29.367	29.328	29.327	29.014	28.280	28.029	---	---	MAX
MIN	28.077	28.005	27.976	27.951	28.480	28.926	28.931	28.308	28.014	27.924	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 29.367 ON MAY 30
MINIMUM DAILY, 27.924 ON OCT 17
MAXIMUM INSTANTANEOUS,
29.398 AT 01:28 CST ON MAY 30

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 46 40 N
LONG 95 45 10 W

A - MANUAL GAUGE

NATURAL FLOW

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.690	2.640	1.900	1.36 B	0.8870	347 E	35.8	20.2	28.6	50.6	21.0	6.900	1
2	3.660	2.610	1.890	1.34 B	0.8570	360 A	32.9	18.3	28.2	47.1	20.1	6.800	2
3	3.630	2.580	1.880	1.33 B	0.8380	307 E	30.5	16.8	29.9	44.4	20.2	6.650	3
4	3.600	2.560	1.860	1.32 B	0.8200	289 A	28.6	16.4	36.1	42.0	19.8	6.510	4
5	3.560	2.530	1.840	1.30 B	0.8080	247 A	26.8	14.9	47.9	40.0	18.7 B	6.370	5
6	3.520	2.500	1.820	1.28 B	0.7900	226	25.2	14.0	54.8	38.8	18.2 B	6.260	6
7	3.460	2.470	1.800	1.27 B	0.7720	200	23.8	13.1	56.3	37.6	17.5 B	6.150	7
8	3.430	2.440	1.790	1.25 B	0.7640	193	22.3	12.4	54.2	36.5	16.7 B	6.060	8
9	3.390	2.410	1.770	1.23 B	0.7350	178	20.9	11.9	51.2	35.3	16.3 B	5.950	9
10	3.360	2.370	1.750	1.22 B	0.7170	167	19.8	12.3	48.2	34.1	15.7 B	5.850	10
11	3.320	2.350	1.740	1.20 B	0.7050	156	18.8	14.6	46.3	32.6	14.8 B	5.750	11
12	3.270	2.320	1.720	1.18 B	0.6870	147	17.7	18.7	44.7	31.2	14.2 B	5.670	12
13	3.220	2.290	1.700	1.17 B	0.6750	138	16.9	22.3	43.0	29.9	13.6 B	5.590	13
14	3.180	2.260	1.690	1.16 B	0.6560	135	16.0	21.5	41.1	28.7	13.2 B	5.500	14
15	3.160	2.230	1.670	1.14 B	0.6440	133	14.8	18.9	39.0	27.7	12.7 B	5.450	15
16	3.110	2.210	1.650	1.12 B	0.6320	129	14.3	16.9	37.1	26.6	12.1 B	5.350	16
17	3.080	2.180	1.630	1.10 B	0.6200	124	14.1	16.1	35.3	26.1	11.6 B	5.260	17
18	3.050	2.150	1.620	1.09 B	0.6080	116	13.8	13.8	37.2	25.7	11.2 B	5.180	18
19	3.010	2.140	1.600	1.08 B	0.5960	108	13.2	14.1	47.8	25.1	10.7 B	5.100	19
20	2.980	2.120	1.580	1.06 B	0.5650	99.2	12.6	17.9	66.3	24.8	10.2 B	5.030	20
21	2.960	2.090	1.560	1.05 B	0.6080	89.0	12.3	24.1	83.0	24.2	9.800	4.980	21
22	2.930	2.070	1.540	1.03 B	0.6670	80.5	11.9	30.2	90.5	24.0	9.420	4.880	22
23	2.900	2.040	1.520	1.01 B	0.7250	74.0	11.6	33.1	88.9	23.6	9.020	4.830	23
24	2.870	2.020	1.510	0.9900	0.8300	67.8	11.1	32.8	86.3	23.6	8.710	4.780	24
25	2.840	1.990	1.490	0.9720	1.97 B	60.8	10.7	31.9	82.4	23.2	8.380	4.710	25
26	2.810	1.970	1.470	0.9540	5.76 B	54.5	11.0	31.0	76.3	22.6	8.130	4.640	26
27	2.780	1.950	1.450	0.9420	14.3 B	49.2	11.8	30.1	70.9	22.0	7.710	4.580	27
28	2.750	1.930	1.430	0.9300	31.3 B	45.1	14.4	28.4	64.2	21.9	7.480	4.520	28
29	2.720		1.420	0.9180	34.1 B	41.5	19.5	28.1	59.0	21.7	7.260	4.470	29
30	2.700		1.400	0.9050	225 B	38.3	22.0	28.1	54.4	21.5	7.130	4.410	30
31	2.670		1.380		340 E		22.3	28.6		21.3		4.340	31
TOTAL	97.82	63.43	51.07	33.881	776.777	4 385.1	578.3	650.8	1 630.2	934.1	391.94	168.52	TOTAL
MEAN	3.16	2.27	1.65	1.13	25.1	147	18.7	21.0	54.3	30.1	13.1	5.44	MEAN
MAX	3.69	2.64	1.90	1.36	340	360	35.8	32.8	90.5	50.6	21.0	6.90	MAX
MIN	2.67	1.93	1.38	0.905	0.565	38.3	10.7	11.8	28.2	21.3	7.12	4.34	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 26.8
MAXIMUM DAILY, 340E ON MAY 31
MINIMUM DAILY, 0.5650 ON MAY 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 55 30 N
LONG 93 19 45 W
DRAINAGE AREA, 3 390 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	8 430	JUL	50 100
FEB	5 480	AUG	56 300
MAR	4 410	SEP	141 000
APR	2 930	OCT	80 700
MAY	67 300	NOV	33 900
JUN	380 000	DEC	14 600

TOTAL DISCHARGE, 845 000 dam³

WEST HAWK LAKE AT WEST HAWK LAKE CAMPGROUND - STATION NO 05PC003

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	332 689	332 582	332 504	332 392	332 272	---	---	1
2	---	---	---	---	---	332 701E	332 581	332 508	332 392	332 272	---	---	2
3	---	---	---	---	---	332 703	332 583	332 506	332 392	332 272E	---	---	3
4	---	---	---	---	---	332 706	332 581	332 508	---	332 272	---	---	4
5	---	---	---	---	---	332 693	332 576	332 506	---	332 272E	---	---	5
6	---	---	---	---	---	332 678	332 577	332 504	---	332 272	---	---	6
7	---	---	---	---	---	332 670	332 565	332 502	---	332 272	---	---	7
8	---	---	---	---	---	332 668	332 561	332 492	---	---	---	---	8
9	---	---	---	---	---	332 659	332 561	332 486	---	---	---	---	9
10	---	---	---	---	332 701	332 657	332 565	332 482	---	---	---	---	10
11	---	---	---	---	332 711E	332 657	332 564	332 472	332 332	---	---	---	11
12	---	---	---	---	332 721	332 655	332 533	332 465	332 329E	---	---	---	12
13	---	---	---	---	332 719	332 644	332 523	332 458	332 328E	332 267	---	---	13
14	---	---	---	---	332 718	332 639	332 523	332 466	332 332	---	---	---	14
15	---	---	---	---	332 749	332 637E	332 522	332 462	332 332	---	---	---	15
16	---	---	---	---	332 762	332 635E	332 504	332 462	332 322	---	---	---	16
17	---	---	---	---	332 762	332 633	332 488	332 462	---	---	---	---	17
18	---	---	---	---	332 762	332 623	332 487	332 432	---	332 262	---	---	18
19	---	---	---	---	332 762	332 613	332 488	332 427	---	332 248E	---	---	19
20	---	---	---	---	332 747	332 619	332 486	332 412	---	332 245E	---	---	20
21	---	---	---	---	332 747	332 618	332 482	332 412	---	332 242	---	---	21
22	---	---	---	---	332 747	332 616	332 480	332 412	---	---	---	---	22
23	---	---	---	---	332 742	332 612	332 488	332 410	---	---	---	---	23
24	---	---	---	---	332 737	332 611	332 482	332 408	332 282	---	---	---	24
25	---	---	---	---	332 736	332 611	332 481	332 408	332 272	---	---	---	25
26	---	---	---	---	332 736	332 618	332 458	332 408	332 272	---	---	---	26
27	---	---	---	---	332 736	332 612	332 455	332 408	332 272	---	---	---	27
28	---	---	---	---	332 727	332 609	332 457	332 402	332 272	---	---	---	28
29	---		332 458	---	332 727	332 597E	332 468	332 402	332 278	---	---	---	29
30	---		---	---	332 713	332 588	332 476	332 402	332 272	---	---	---	30
31	---		---		332 708		332 512	332 402		---		---	31
MEAN	---	---	---	---	---	332 683	332 517	332 449	---	---	---	---	MEAN
MAX	---	---	---	---	---	332 706	332 591	332 506	---	---	---	---	MAX
MIN	---	---	---	---	---	332 588	332 455	332 402	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 332 762 ON MAY 16

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 44 45 N
LONG 95 12 41 W
DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO 05LL001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 0	0 0218	0 260	0 193	0 192	0 006	0 017	0 274	---	---	1
2	---	---	0 0	0 0048	0 236	0 192	0 198	0 009	0 011	0 240	---	---	2
3	---	---	0 0	0 0098	0 222	0 218	0 277	0 010	0 022	0 181	---	---	3
4	---	---	0 0	0 0748	0 188	0 231	0 260	0 004	0 007	0 109	---	---	4
5	---	---	0 0	1 16 0	0 231	0 277	0 268	0 001	0 001	0 082	---	---	5
6	---	---	0 0	1 86 0	0 176	0 186	0 231	0	0 001	0 085	---	---	6
7	---	---	0 0	2 86 0	0 170	0 186	0 189	0	0	0 059	---	---	7
8	---	---	0 0	4 22 0	0 160	0 183	0 158	0	0 001	0 047	---	---	8
9	---	---	0 0	5 87 0	0 153	0 173	0 143	0	0 005	0 043	---	---	9
10	---	---	0 0	5 49 0	0 184	0 214	0 158	0	0 010	0 040	---	---	10
11	---	---	0 0	3 11 0	0 185	0 173	0 123	0	0 015	0 042	---	---	11
12	---	---	0 0	2 50 0	0 198	0 141	0 095	0 002	0 011	0 056	---	---	12
13	---	---	0 0	1 67 0	0 362	0 134	0 075	0 034	0 008	0 075	---	---	13
14	---	---	0 0	1 50 0	0 421	0 142	0 065	0 022	0 018	0 071	---	---	14
15	---	---	0 0	0 7988	0 478	0 132	0 038	0 004	0 105	0 085	---	---	15
16	---	---	0 0	0 5108	0 458	0 122	0 027	0	0 182	0 058	---	---	16
17	---	---	0 0	0 4089	0 408	0 113	0 015	0	0 184	0 053	---	---	17
18	---	---	0 0	0 400	0 385	0 102	0 008	0	0 118	0 048	---	---	18
19	---	---	0 0	0 584	0 385	0 135	0 004	0	0 174	0 043	---	---	19
20	---	---	0 0	1 03	0 377	0 104	0 002	0	0 130	0 044	---	---	20
21	---	---	0 0	1 58	0 471	0 115	0 003	0 001	0 080	0 050	---	---	21
22	---	---	0 0	1 46	0 483	0 128	0 002	0	0 085	0 057	---	---	22
23	---	---	0 0	1 09	0 334	0 171	0	0	0 083	0 061	---	---	23
24	---	---	0 0	0 794	0 388	0 178	0	0 027	0 084	0 074	---	---	24
25	---	---	0 0	0 553	0 371	0 180	0	0 085	0 086	0 085	---	---	25
26	---	---	0 0	0 516	0 337	0 184	0	0 108	0 061	0 083	---	---	26
27	---	---	0 0	0 527	0 267	0 157	0	0 079	0 029	0 068	---	---	27
28	---	---	0 0	0 545	0 261	0 325	0	0 053	0 021	0 059	---	---	28
29	---		0 0	0 414	0 230	0 200	0	0 043	0 024	0 053	---	---	29
30	---		0 0035	0 291	0 253	0 167	0 002	0 036	0 051	0 052	---	---	30
31	---		0 0108		0 251		0 003	0 028		0 0318		---	31
TOTAL	---	---	0 018	44 377	9 110	5 187	3 548	0 550	1 477	3 305	---	---	TOTAL
MEAN	---	---	0 001	1 48	0 294	0 173	0 082	0 018	0 049	0 072	---	---	MEAN
MAX	---	---	0 018	5 87	0 478	0 325	0 280	0 108	0 174	0 274	---	---	MAX
MIN	---	---	0	0 021	0 153	0 104	0	0	0	0 051	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0 367
MAXIMUM DAILY, 5 870 ON APR 9
MINIMUM DAILY, 00 ON MAR 1
MAXIMUM INSTANTANEOUS,
7 600 AT 15 15 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 50 00 N
LONG 96 59 50 W
DRAINAGE AREA, 155 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	220
FEB	---	AUG	47 5
MAR	1 04	SEP	126
APR	3 930	OCT	194
MAY	787	NOV	---
JUN	448	DEC	---

TOTAL DISCHARGE, 5 080 dam³

WHITEMOUTH LAKE NEAR THE OUTLET - STATION NO. 05PH005

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	344.161	344.181	344.189	344.095	344.025	343.988	---	---	1
2	---	---	---	---	344.164	344.188	344.208	344.103	344.034	343.972	---	---	2
3	---	---	---	---	344.138	344.191	344.204	344.092	344.011	343.971	---	---	3
4	---	---	---	344.100A	344.151	344.184	344.177	344.086	344.004	343.985	---	---	4
5	---	---	---	344.108	344.151	344.180	344.199	344.078	344.006	343.959	---	---	5
6	---	---	---	344.113	344.145	344.158	344.210	344.082	343.994	343.971	---	---	6
7	---	---	---	344.120	344.138	344.187	344.205	344.084	343.999	343.968	---	---	7
8	---	---	---	344.127	344.160	344.182	344.197	344.049	343.985	343.977	---	---	8
9	---	---	---	344.133	344.182	344.186	344.207	344.059	343.991	344.007	---	---	9
10	---	---	---	344.138	344.158	344.200	344.206	344.038	343.988	344.000	---	---	10
11	---	---	---	344.143	344.135	344.186	344.182	344.048	343.974	343.954	---	---	11
12	---	---	---	344.148	344.171	344.207	344.180	344.060	343.969	343.951	---	---	12
13	---	---	---	344.151	344.188	344.201	344.177	344.024	343.969	343.956	---	---	13
14	---	---	---	344.152	344.188	344.191	344.170	344.036	343.974	343.980	---	---	14
15	---	---	344.117A	344.153	344.178	344.195	344.180	344.023	343.989	343.986	---	---	15
16	---	---	---	344.181	344.188	344.183	344.181	344.015	343.986	343.956	---	---	16
17	---	---	---	344.180	344.198	344.193	344.184	344.022	344.025	343.982	---	---	17
18	---	---	---	344.183	344.203	344.203	344.181	344.024	343.967	343.986	---	---	18
19	---	---	---	344.187	344.178	344.210	344.149	343.973	343.978	343.974	---	---	19
20	---	---	---	344.193	344.193	344.210	344.145	343.998	343.955	343.982	---	---	20
21	---	---	---	344.182	344.207	344.203	344.142	344.002	343.990	343.978	---	---	21
22	---	---	---	344.188	344.173	344.215	344.121	344.001	343.983	343.974	---	---	22
23	---	---	---	344.180	344.188	344.210	344.104	344.008	343.987	343.983	---	---	23
24	---	---	---	344.180	344.188	344.218	344.111	344.018	343.981	343.981	---	---	24
25	---	---	---	344.178	344.185	344.214	344.114	344.017	343.973	343.970	---	---	25
26	---	---	---	344.171	344.202	344.198	344.126	344.009	343.973	343.969	---	---	26
27	---	---	---	344.187	344.187	344.199	344.105	344.017	343.988	343.976A	---	---	27
28	---	---	---	344.180	344.187	344.197	344.103	344.029	343.975	---	---	---	28
29	---		---	344.187	344.182	344.200	344.097	344.026	343.953	---	---	---	29
30	---		---	344.181	344.187	344.193	344.101	344.027	343.982	---	---	---	30
31	---		---		344.173		344.085	344.032		---		---	31
MEAN	---	---	---	---	344.171	344.195	344.157	344.038	343.985	---	---	---	MEAN
MAX	---	---	---	---	344.207	344.218	344.210	744.103	344.034	---	---	---	MAX
MIN	---	---	---	---	344.135	344.156	344.085	343.973	343.950	---	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 344.218 ON JUN 24

MAXIMUM INSTANTANEOUS,
344.300 AT 01:23 CST ON JUN 22

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 40 N
LONG 95 41 50 W

A - MANUAL GAUGE

REGULATED

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO 05PH003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.3488	0.4778	0.3238	4.378	17.7	27.3	15.8	8.22	0.404	0.230	0.956	1.20 E	1
2	0.3268	0.5648	0.3278	4.458	17.3A	26.1	17.8	7.82	0.417	0.218	0.912	1.18 E	2
3	0.3628	0.5318	0.3648	4.688	17.0E	27.3	22.0	6.76	0.418	0.218	0.835	1.20 E	3
4	0.4198	0.5188	0.3288	7.698	16.7E	29.2	33.7	5.47	0.357	0.231	0.800	1.05 E	4
5	0.4128	0.4658	0.3608	10.1 E	16.4E	30.2	40.7	4.31	0.348	0.235	0.709	1.00 E	5
6	0.4708	0.3208	1.03 E	12.7 E	16.1E	29.7	39.0	3.32	0.385	0.246	0.794	0.9418	6
7	0.5068	0.3648	2.85 E	15.6 E	15.8E	28.2	34.7	2.64	0.338	0.256	0.768	0.8748	7
8	0.5108	0.3608	5.12 E	21.5 E	15.8E	26.2	29.8	2.12	0.383	0.336	0.794	0.8258	8
9	0.5948	0.3258	6.90 E	25.7 E	15.3E	24.4	25.6	1.71	0.432	0.489	0.748	0.7788	9
10	0.6478	0.3068	6.74 E	28.2 E	15.0E	23.8	21.9	1.43	0.404	0.630	0.720	0.7218	10
11	0.6108	0.1448	6.46 E	31.5 E	14.8A	21.4	18.7	1.21	0.389	0.578	0.715	0.6768	11
12	0.6248	0.1998	5.86 E	32.9 E	22.5	20.4	16.2	0.986	0.348	0.542	0.7188	0.5988	12
13	0.6588	0.2568	5.57 E	33.5 E	26.1	20.3	14.1	0.835	0.334	0.578	0.6138	0.5768	13
14	0.6318	0.3478	5.66 E	33.2 E	25.3	23.5	12.1	0.686	0.303	0.590	0.7378	0.4728	14
15	0.5268	0.4048	5.26 E	34.0 E	25.0	26.6	10.6	0.583	0.288	0.868	0.6738	0.4198	15
16	0.5778	0.4388	5.31 E	33.9 E	24.2	30.6	9.18	0.494	0.263	0.848	0.8218	0.3848	16
17	0.5068	0.4548	5.61 E	33.2 E	41.8	32.5	7.86	0.459	0.280	0.678	1.21 E	0.3758	17
18	0.3938	0.4658	5.31 E	26.1 E	40.3	30.7	6.35	0.394	0.302	0.680	0.8198	0.3828	18
19	0.4238	0.5408	5.82 E	19.3	39.3	27.8	5.26	0.380	0.285	0.635	0.6848	0.1998	19
20	0.4188	0.5008	5.04 E	18.4	38.4	25.3	5.84	0.319	0.285	0.688	0.8518	0.2028	20
21	0.4258	0.4278	0.8878	17.8	36.8	24.7	5.84	0.352	0.299	0.831	0.8368	0.2118	21
22	0.4578	0.4008	0.4428	17.8	35.8	25.8	5.48	0.331	0.272	1.07	0.8678	0.2468	22
23	0.5598	0.3028	0.2718	17.4	35.4	25.0	4.58	0.289	0.267	1.05	0.8078	0.2278	23
24	0.6378	0.3268	0.1588	17.1	34.4	25.8	3.87	0.310	0.338	1.13	0.8198	0.3068	24
25	0.5948	0.2848	0.0808	17.0	33.0	25.3	3.00	0.305	0.259	1.06	0.9538	0.4828	25
26	0.5048	0.2998	0.0818	17.5	30.8	25.9	2.57	0.315	0.328	1.02	1.10 E	0.4838	26
27	0.4238	0.3188	0.0388	18.2	29.0	23.4	2.26	0.349	0.261	1.01	1.17 E	0.3238	27
28	0.4478	0.3238	0.1478	18.4	28.1	20.4	3.47	0.383	0.252	1.01	1.24 E	0.3028	28
29	0.4188		0.5378	18.3	28.1	17.7	3.68	0.349	0.219	0.977	1.27 E	0.4098	29
30	0.4178		2.02 E	18.5	28.4	16.3	3.19	0.339	0.202	0.995	1.24 E	0.4618	30
31	0.4308		3.55 E		28.3		3.44	0.378		1.02		0.4878	31
TOTAL	15.381	10.893	82.304	612.98	882.0	772.4	433.21	53.799	9.359	31.882	25.138	18.184	TOTAL
MEAN	0.483	0.382	2.61	20.4	28.5	25.7	13.9	1.74	0.312	0.999	0.838	0.586	MEAN
MAX	0.658	0.564	6.56	34.0	41.8	32.5	40.7	8.22	0.432	1.13	1.27	1.20	MAX
MIN	0.328	0.144	0.038	4.37	15.0	16.3	2.26	0.289	0.202	0.218	0.619	0.189	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.99
MAXIMUM DAILY, 66.0 ON MAY 15
MINIMUM DAILY, 0.0388 ON MAR 27
MAXIMUM INSTANTANEOUS,
46.4 AT 02:30 CST ON MAY 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 59 30 N
LONG 95 57 30 W
DRAINAGE AREA, 3 700 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 320	JUL	37 300
FEB	934	AUG	4 650
MAR	5 380	SEP	800
APR	53 000	OCT	1 670
MAY	76 200	NOV	2 170
JUN	66 700	DEC	1 570

TOTAL DISCHARGE, 282 000 dam³

WHITEMUD RIVER ABOVE NEEPAWA RESERVOIR - STATION NO 05LL013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.3418	0.2918	1.18	0.508	0.497	0.165E	0.108E	0.374	---	---	1
2	---	---	0.3418	0.3678	0.898	0.504	0.495	0.172E	0.123E	0.374	---	---	2
3	---	---	0.3428	0.3828	0.752	0.524	0.501	0.173E	0.132E	0.382	---	---	3
4	---	---	0.3428	0.3708	0.672	0.525	0.483	0.174E	0.140E	0.344	---	---	4
5	---	---	0.3438	0.3688	0.613	0.515	0.448	0.178A	0.144E	0.339	---	---	5
6	---	---	0.3448	0.3688	0.555	0.501	0.418	0.152	0.134A	0.362	---	---	6
7	---	---	0.3448	0.3628	0.512	0.493	0.382	0.134	0.139	0.355	---	---	7
8	---	---	0.3458	0.4698	0.488	0.470	0.355	0.088	0.139	0.332	---	---	8
9	---	---	0.3488	0.6188	0.482	0.453	0.355	0.062	0.158	0.323	---	---	9
10	---	---	0.3488	0.8158	0.488	0.454	0.413	0.059	0.202	0.320	---	---	10
11	---	---	0.3478	1.14 E	0.487	0.440	0.435	0.070	0.212	0.319	---	---	11
12	---	---	0.3478	1.06 E	0.485	0.432	0.406	0.066	0.229	0.327	---	---	12
13	---	---	0.3478	0.9578	0.473	0.439	0.386	0.069	0.245	0.330	---	---	13
14	---	---	0.3478	0.8888	0.489	0.440	0.353	0.064	0.260	0.327	---	---	14
15	---	---	0.3488	1.00 E	0.500	0.441	0.313	0.076	0.292	0.328	---	---	15
16	---	---	0.3488	1.12 E	0.505	0.433	0.311	0.088	0.330	0.321	---	---	16
17	---	---	0.3498	1.28 E	0.505	0.418	0.265	0.087	0.335	0.322	---	---	17
18	---	---	0.3508	1.64 E	0.492	0.402	0.241	0.088E	0.331	0.321A	---	---	18
19	---	---	0.3508	2.93 E	0.489	0.410	0.224	0.090E	0.333	0.314E	---	---	19
20	---	---	0.3518	3.45 E	0.495	0.405	0.225	0.090E	0.352	0.315E	---	---	20
21	---	---	0.3528	4.37 E	0.488	0.414	0.227	0.091E	0.337	0.317E	---	---	21
22	---	---	0.3528	3.58 E	0.503	0.483	0.215	0.092E	0.332	0.319E	---	---	22
23	---	---	0.3538	3.32 E	0.504	0.510	0.188	0.090E	0.328	0.324E	---	---	23
24	---	---	0.3538	5.45 E	0.504	0.544	0.185	0.089E	0.332	0.326E	---	---	24
25	---	---	0.3538	7.03	0.507	0.531	0.151	0.092E	0.333	0.329E	---	---	25
26	---	---	0.3548	5.30	0.514	0.485	0.138	0.093E	0.333	0.325E	---	---	26
27	---	---	0.3558	5.06	0.520	0.456	0.135	0.094E	0.338	0.329E	---	---	27
28	---	---	0.3558	3.96	0.514	0.437	0.131A	0.093E	0.269	0.329A	---	---	28
29	---		0.3568	2.83	0.517	0.420	0.130E	0.094E	0.318	0.330	---	---	29
30	---		0.3768	1.76	0.588	0.477	0.136E	0.102E	0.344	0.325	---	---	30
31	---		0.3678		0.552		0.152E	0.103E		0.324		---	31
TOTAL	---	---	10.884	83.889	17.282	13.985	8.228	3.185	7.821	10.274	---	---	TOTAL
MEAN	---	---	0.350	2.12	0.557	0.466	0.298	0.102	0.254	0.331	---	---	MEAN
MAX	---	---	0.387	7.03	1.18	0.544	0.501	0.178	0.352	0.374	---	---	MAX
MIN	---	---	0.341	0.282	0.488	0.402	0.130	0.059	0.108	0.314	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.555
MAXIMUM DAILY, 7.03 ON APR 25
MINIMUM DAILY, 0.059 ON AUG 10
MAXIMUM INSTANTANEOUS,
7.14 AT 03:37 CST ON APR 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 10 54 N
LONG 99 23 55 W
DRAINAGE AREA, 414 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	797
FEB	---	AUG	273
MAR	939	SEP	658
APR	5 500	OCT	886
MAY	1 490	NOV	---
JUN	1 210	DEC	---

TOTAL DISCHARGE, 11 800 dam³

WHITEMUD RIVER AT WESTBOURNE - STATION NO 05LL002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.5588	0.5298	0.4808	7.518	29.9	11.7	4.89	1.21	0.774	0.787	2.88	2.67 B	1
2	0.5358	0.5248	0.4868	9.538	28.5	11.3	4.71	1.21	0.731	0.756	3.90	2.48 B	2
3	0.5388	0.5838	0.5188	24.5 B	24.2	11.2	5.13	1.31	0.674	0.777	2.84	2.29 B	3
4	0.5588	0.5948	0.5148	37.9 B	21.8	11.0	5.22	1.30	0.657	1.29	2.24	2.09 B	4
5	0.5848	0.5908	0.5018	51.9 B	19.9	11.0	5.58	1.48	0.690	1.75	2.63	1.88 B	5
6	0.6328	0.5908	0.5348	61.0 B	18.6	10.9	5.88	1.23	0.805	1.61	2.83	1.67 B	6
7	0.6598	0.5808	0.5478	67.0 B	17.6	10.5	5.52	1.22	0.525	1.28	2.82	1.61 B	7
8	0.6738	0.6068	0.5438	68.7 B	16.6	10.1	4.88	1.21	0.401	1.27	3.09	1.55 B	8
9	0.6848	0.6828	0.5428	67.5 B	15.6	9.46	3.98	1.21	0.319	1.10	3.10	1.25 B	9
10	0.6868	0.5028	0.5198	65.5 B	14.9	8.95	3.57	1.09	0.248	0.813	3.15	0.9838	10
11	0.6578	0.5138	0.5238	58.4 B	14.6	8.57	3.21	0.981	0.228	0.976	2.59	0.9388	11
12	0.6868	0.4868	0.5188	77.4	14.6	7.93	3.08	0.853	0.232	1.14	2.49	0.8748	12
13	0.6988	0.4878	0.5648	84.2	14.7	7.73	3.11	0.778	0.214	1.11	2.40	0.8388	13
14	0.7008	0.4918	0.5618	81.2	15.0	7.43	3.12	0.740	0.224	1.08	3.89	0.9048	14
15	0.7168	0.4858	0.5328	80.8	15.8	7.21	2.80	0.706	0.263	1.47	5.38	1.09 B	15
16	0.7218	0.4868	0.7348	35.3	16.5	7.16	2.53	0.853	0.341	1.99	4.64	1.25 B	16
17	0.6838	0.4908	0.7478	31.6	16.7	6.81	2.30	0.809	0.342	2.59	4.65	1.29 B	17
18	0.7098	0.4798	0.6448	28.8	16.4	6.35	2.14	0.584	0.402	2.62	4.80	1.36 B	18
19	0.6978	0.4578	0.5428	27.7	16.1	6.05	2.08	0.548	0.462	3.38	4.80	1.26 B	19
20	0.6968	0.4818	0.4888	27.3	15.8	6.05	2.09	0.576	0.454	3.63	4.848	1.12 B	20
21	0.7088	0.4888	0.4838	30.2	16.0	6.22	3.31	0.707	0.483	3.43	4.518	1.03 B	21
22	0.6888	0.5008	0.4928	28.6	16.2	6.61	2.27	0.686	0.480	3.29	3.528	0.9268	22
23	0.6808	0.5068	0.3688	49.4	16.0	6.45	1.76	0.606	0.402	3.16	3.228	0.7808	23
24	0.6838	0.4918	0.3308	83.2	15.6	6.40	1.61	0.706	0.384	2.38	4.238	0.6158	24
25	0.5958	0.4908	0.2718	80.0	13.7	6.48	1.46	0.689	0.392	2.80	3.948	0.5608	25
26	0.6178	0.4778	0.2288	80.0	14.4	6.52	1.48	0.860	0.403	3.26	4.188	0.5188	26
27	0.6108	0.4828	0.1738	71.2	13.8	6.52	1.44	0.678	0.410	4.06	4.058	0.3608	27
28	0.6068	0.4838	0.1908	58.8	13.6	6.39	1.33	0.646	0.452	3.80	3.258	0.3328	28
29	0.6188		0.1738	45.6	13.1	6.83	1.24	0.822	0.482	2.86	2.978	0.3258	29
30	0.6158		0.3638	36.2	12.7	6.71	1.21	0.812	0.628	2.86	2.778	0.3188	30
31	0.6428		1.36 B		12.3		1.20	0.656		2.84		0.3268	31
TOTAL	20.188	14.454	15.422	1 512.98	518.9	237.07	83.32	26.353	13.138	61.621	104.01	35.478	TOTAL
MEAN	0.651	0.516	0.497	50.4	16.7	7.90	3.01	0.815	0.438	1.99	3.47	1.14	MEAN
MAX	0.721	0.629	1.36	98.4	29.9	11.7	5.88	1.48	0.774	4.06	5.38	2.67	MAX
MIN	0.535	0.467	0.188	7.61	12.3	4.71	1.20	0.548	0.214	0.756	2.24	0.319	MIN

SUMMARY FOR THE YEAR 1983

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.27
MAXIMUM DAILY, 98.40 ON APR 11
MINIMUM DAILY, 0.1800 ON MAR 26
MAXIMUM INSTANTANEOUS,
1060 AT 07:15 CST ON APR 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 08 03 N
LONG 98 35 00 W
DRAINAGE AREA, 6 330 km²

B - ICE CONDITIONS

REGULATED SINCE 1966

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 760	JUL	8 080
FEB	1 250	AUG	2 450
MAR	1 330	SEP	1 140
APR	151 000	OCT	5 220
MAY	44 800	NOV	8 900
JUN	30 500	DEC	3 000

TOTAL DISCHARGE, 230 000 dam³

WHITEWATER LAKE NEAR ODISSEVAIN - STATION NO 05MD023

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	495.149E	495.152	495.061	495.047	495.032	495.775	495.745	---	1
2	---	---	---	---	495.149E	495.153	495.065	495.036	495.034	495.773	495.743A	---	2
3	---	---	---	---	495.149A	495.131	495.065	495.035	495.019	495.772	---	---	3
4	---	---	---	---	495.188	495.131	495.053	495.030	495.017	495.779	---	---	4
5	---	---	---	---	495.190	495.135	495.072	495.019	495.022	495.751	---	---	5
6	---	---	---	---	495.181	495.127	495.085	495.037	495.014	495.770	---	---	6
7	---	---	---	---	495.174	495.133	495.057	495.004	495.013	495.771	---	---	7
8	---	---	---	---	495.212	495.125	495.062	495.005	495.008	495.773	---	---	8
9	---	---	---	---	495.207	495.142	495.055	495.004	495.008	495.789	---	---	9
10	---	---	---	---	495.173	495.135	495.056	495.002	495.005	495.775	---	---	10
11	---	---	---	---	495.167	495.164	495.000	495.030	495.001	495.765	---	---	11
12	---	---	---	---	495.162	495.122	495.021	495.006	495.000	495.763	---	---	12
13	---	---	---	---	495.168	495.066	495.011	495.000	495.000	495.761	---	---	13
14	---	---	---	---	495.185	495.083	495.018	495.077	495.003	495.760	---	---	14
15	---	---	---	---	495.183	495.070	495.006	495.057	495.001	495.760	---	---	15
16	---	---	---	---	495.194	495.081	495.007	495.074	495.018	495.759	---	---	16
17	---	---	---	---	495.185	495.085	495.001	495.060	495.035	495.757	---	---	17
18	---	---	---	---	495.191	495.101	495.002	495.055	495.703	495.756	---	---	18
19	---	---	---	---	495.185	495.081	495.000	495.033	495.701	495.755	---	---	19
20	---	---	---	---	495.197	495.067	495.007	495.048	495.788	495.762	---	---	20
21	---	---	---	---	495.181	495.061	495.002	495.039	495.785	495.767	---	---	21
22	---	---	---	---	495.180	495.071	495.070	495.042	495.785	495.763	---	---	22
23	---	---	---	---	495.179	495.078	495.065	495.047	495.787	495.759	---	---	23
24	---	---	---	---	495.177	495.093	495.069	495.041	495.785	495.751	---	---	24
25	---	---	---	---	495.180	495.061	495.078	495.040	495.785	495.751	---	---	25
26	---	---	---	---	495.191	495.055	495.076	495.038	495.783	495.750	---	---	26
27	---	---	---	---	495.172	495.053	495.056	495.037	495.701	495.742	---	---	27
28	---	---	---	---	495.162	495.053	495.047	495.034	495.700	495.744	---	---	28
29	---	---	---	---	495.147	495.050	495.041	495.032	495.775	495.751	---	---	29
30	---	---	---	---	495.145	495.052	495.043	495.038	495.774	495.747	---	---	30
31	---	---	---	---	495.151	---	495.037	495.040	---	495.746	---	---	31
MEAN	---	---	---	---	495.175	495.087	495.007	495.073	495.001	495.761	---	---	MEAN
MAX	---	---	---	---	495.212	495.153	495.072	495.047	495.035	495.789	---	---	MAX
MIN	---	---	---	---	495.142	495.050	495.037	495.032	495.774	495.744	---	---	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MAXIMUM DAILY, 495.212 ON MAY 6

MAXIMUM INSTANTANEOUS,
495.335 AT 22:40 CST ON MAY 6

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 15 26 N
LONG 100 19 29 W

A - MANUAL GAUGE

E - ESTIMATED

WILLOW CREEK NEAR CHATER - STATION NO 05MH011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.2368	0.750	0.197	0.165	0.050	0.001	0	---	---	1
2	---	---	0 B	0.6368	0.634	0.196	0.167	0.047	0	0	---	---	2
3	---	---	0 B	0.8338	0.552	0.206	0.204	0.045	0	0	---	---	3
4	---	---	0 B	2.51 B	0.476	0.306	0.205	0.041	0	0	---	---	4
5	---	---	0 B	2.84 B	0.452	0.201	0.229	0.032	0	0	---	---	5
6	---	---	0 B	4.61 B	0.411	0.195	0.207	0.027	0	0	---	---	6
7	---	---	0 B	9.64 B	0.363	0.196	0.181	0.020	0	0	---	---	7
8	---	---	0 B	19 0 B	0.312	0.203	0.151	0.017	0	0	---	---	8
9	---	---	0 B	33 5 B	0.290	0.192	0.162	0.010	0	0	---	---	9
10	---	---	0 B	35 8 B	0.276	0.186	0.202	0.007	0	0	---	---	10
11	---	---	0 B	26 0	0.239	0.178	0.206	0.006	0	0	---	---	11
12	---	---	0 B	17 2	0.263	0.185	0.203	0.005	0	0	---	---	12
13	---	---	0 B	11 3	0.217	0.158	0.176	0.008	0	0	---	---	13
14	---	---	0 B	8 02	0.241	0.135	0.149	0.005	0	0	---	---	14
15	---	---	0 B	7 30	0.245	0.116	0.139	0.005	0	0	---	---	15
16	---	---	0 B	5 48	0.212	0.100	0.151	0.004	0	0	---	---	16
17	---	---	0 B	4 45	0.272	0.101	0.137	0.003	0	0	---	---	17
18	---	---	0 B	3 77	0.280	0.080	0.133	0.002	0	0	---	---	18
19	---	---	0 B	3 88	0.303	0.087	0.135	0.002	0	0	---	---	19
20	---	---	0 B	9 28	0.323	0.078	0.116	0.002	0	0	---	---	20
21	---	---	0 B	5 66	0.275	0.072	0.109	0.002	0	0	---	---	21
22	---	---	0 B	5 83	0.263	0.204	0.098	0.002	0	0	---	---	22
23	---	---	0 B	4 73	0.244	0.190	0.091	0.002	0	0	---	---	23
24	---	---	0 0.128	3 56	0.264	0.188	0.088	0.002	0	0	---	---	24
25	---	---	0 0.218	2 71	0.221	0.170	0.080	0.001	0	0	---	---	25
26	---	---	0 0.108	2 11	0.213	0.195	0.073	0.001	0	0	---	---	26
27	---	---	0 0.048	1 64	0.213	0.156	0.089	0.001	0	0	---	---	27
28	---	---	0 0.038	1 31	0.207	0.148	0.083	0.001	0	0	---	---	28
29	---	---	0 0.068	1 05	0.204	0.143	0.068	0.001	0	0	---	---	29
30	---	---	0 0.418	0.889	0.205	0.138	0.067	0.001	0	0	---	---	30
31	---	---	0 0.768		0.195		0.053	0					31
TOTAL	---	---	0.172	241.053	9.979	4.820	4.261	0.353	0.001	0	---	---	TOTAL
MEAN	---	---	0.005	8.04	0.322	0.161	0.137	0.011	0	0	---	---	MEAN
MAX	---	---	0.078	35.8	0.750	0.266	0.229	0.050	0.001	0	---	---	MAX
MIN	---	---	0	0.335	0.189	0.072	0.067	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.06
MAXIMUM DAILY, 35.80 ON APR 10
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
43.99 AT 00:26 CST ON APR 9

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 51 22 N
LONG 99 49 34 W
DRAINAGE AREA, 868 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	366
FEB	---	AUG	30.5
MAR	14.8	SEP	0.03
APR	20 800	OCT	0
MAY	862	NOV	---
JUN	416	DEC	---

TOTAL DISCHARGE, 22 900 dam³

WILLOW CREEK NEAR GIMLI - STATION NO 05SB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.69 B	0.802	0.055	---	---	---	---	---	---	1
2	---	---	0 B	2.73 B	0.671	0.046	---	---	---	---	---	---	2
3	---	---	0 B	3.96 B	0.535	0.099	---	---	---	---	---	---	3
4	---	---	0 B	5.12 B	0.396	0.037	---	---	---	---	---	---	4
5	---	---	0 B	6.78 B	0.328	0.077	---	---	---	---	---	---	5
6	---	---	0 B	8.29	0.262	0.070	---	---	---	---	---	---	6
7	---	---	0 B	7.25	0.226	0.048	---	---	---	---	---	---	7
8	---	---	0 B	6.18	0.178	0.046	---	---	---	---	---	---	8
9	---	---	0 B	5.47	0.190	0.043	---	---	---	---	---	---	9
10	---	---	0 B	4.95	0.294	0.024	---	---	---	---	---	---	10
11	---	---	0.0108	3.95	0.330	0.009	---	---	---	---	---	---	11
12	---	---	0.0208	3.27	0.427	0.010	---	---	---	---	---	---	12
13	---	---	0.0108	2.56	0.195	0.120	---	---	---	---	---	---	13
14	---	---	0 B	2.36	0.182	0.357	---	---	---	---	---	---	14
15	---	---	0 B	2.24	0.155	0.345	---	---	---	---	---	---	15
16	---	---	0 B	2.03	0.142	0.274	---	---	---	---	---	---	16
17	---	---	0 B	1.97	0.127	0.186	---	---	---	---	---	---	17
18	---	---	0 B	1.84	0.112	0.105	---	---	---	---	---	---	18
19	---	---	0 B	1.80	0.180	0.060	---	---	---	---	---	---	19
20	---	---	0 B	1.67	0.200	0.158	---	---	---	---	---	---	20
21	---	---	0 B	1.55	0.189	0.430	---	---	---	---	---	---	21
22	---	---	0 B	1.37	0.167	3.41	---	---	---	---	---	---	22
23	---	---	0 B	1.30	0.143	2.86	---	---	---	---	---	---	23
24	---	---	0 B	1.36	0.149	1.55	---	---	---	---	---	---	24
25	---	---	0 B	1.35	0.134	1.23	---	---	---	---	---	---	25
26	---	---	0 B	1.33	0.120	1.04	---	---	---	---	---	---	26
27	---	---	0 B	1.17	0.101	0.711	---	---	---	---	---	---	27
28	---	---	0 1008	0.982	0.100	0.501	---	---	---	---	---	---	28
29	---		0 3008	0.850	0.081	0.357	---	---	---	---	---	---	29
30	---		0 5548	0.760	0.069	0.328	---	---	---	---	---	---	30
31	---		0 9078		0.063		---	---		---		---	31
TOTAL	---	---	1 901	91.232	9.248	14.655	---	---	---	---	---	---	TOTAL
MEAN	---	---	0.061	3.04	0.234	0.489	---	---	---	---	---	---	MEAN
MAX	---	---	0.907	8.78	0.802	3.41	---	---	---	---	---	---	MAX
MIN	---	---	0	0.760	0.063	0.009	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO JUN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.943
MAXIMUM DAILY, 8.780 ON APR 5
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
8.85 AT 14:34 CST ON APR 6

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 34 50 N
LONG 97 02 40 W
DRAINAGE AREA, 158 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	164	SEP	---
APR	7 880	OCT	---
MAY	826	NOV	---
JUN	1 270	DEC	---

TOTAL DISCHARGE, 9 940 dam³

WILSON RIVER NEAR ASHVILLE - STATION NO 05LJ045

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	9.95	1.46	0.464	0.036	0.001	0	---	---	1
2	---	---	0B	0 B	8.08	1.27	0.573	0.031	0.002	0	---	---	2
3	---	---	0B	0 B	6.54	1.13	0.613	0.028	0.002	0	---	---	3
4	---	---	0B	0 B	4.79	1.23	0.581	0.026	0.003	0	---	---	4
5	---	---	0B	0 B	3.76	1.76	0.641	0.023	0.004	0	---	---	5
6	---	---	0B	0 B	3.04	1.73	0.618	0.022	0.003	0	---	---	6
7	---	---	0B	0 B	2.44	1.59	0.503	0.018	0.002	0	---	---	7
8	---	---	0B	0 B	1.96	1.24	0.388	0.015	0.002	0	---	---	8
9	---	---	0B	0.0228	1.71	1.13	0.342	0.013	0.003	0	---	---	9
10	---	---	0B	0.2908	1.63	1.01	0.318	0.011	0.002	0.002	---	---	10
11	---	---	0B	0.2508	1.65	0.905	0.280	0.010	0.001	0.002	---	---	11
12	---	---	0B	0.1808	1.55	0.770	0.485	0.008	0.001	0.002	---	---	12
13	---	---	0B	0.1508	1.37	0.588	0.467	0.007	0.001	0.002	---	---	13
14	---	---	0B	0.1088	1.28	1.12	0.432	0.007	0.001	0.001	---	---	14
15	---	---	0B	0.0608	1.24	1.06	0.371	0.005	0	0.001	---	---	15
16	---	---	0B	0.0428	1.29	0.857	0.369	0.004	0	0.001	---	---	16
17	---	---	0B	0.0368	2.66	0.692	0.384	0.003	0	0.001	---	---	17
18	---	---	0B	0.0318	12.1	0.520	0.478	0.003	0	0.001	---	---	18
19	---	---	0B	0.2908	18.5	0.417	0.377	0.002	0	0.001	---	---	19
20	---	---	0B	0.8038	12.5	0.334	0.272	0.002	0	0.002	---	---	20
21	---	---	0B	0.8228	9.24	0.265	0.201	0.002	0	0.002	---	---	21
22	---	---	0B	21.6 B	7.88	0.227	0.183	0.001	0	0.001	---	---	22
23	---	---	0B	90.2 B	6.46	0.184	0.144	0.001	0	0.001	---	---	23
24	---	---	0B	154	5.32	0.174	0.100	0.001	0	0.001	---	---	24
25	---	---	0B	133	4.31	0.405	0.061	0.000	0	0.001	---	---	25
26	---	---	0B	72.8	3.62	0.882	0.048	0.004	0	0.001	---	---	26
27	---	---	0B	47.8	4.23	2.86	0.044	0.006	0	0	---	---	27
28	---	---	0B	29.8	3.69	1.21	0.185	0.003	0	0	---	---	28
29	---		0B	19.8	2.73	0.883	0.070	0.003	0	0	---	---	29
30	---		0B	13.4	2.15	0.548	0.052	0.002	0	0	---	---	30
31	---		0B		1.75		0.046	0.001		0		---	31
TOTAL	---	---	0	584.784	149.62	28.231	10.129	0.304	0.026	0.023	---	---	TOTAL
MEAN	---	---	0	19.5	4.82	0.941	0.327	0.010	0.001	0.001	---	---	MEAN
MAX	---	---	0	154	18.5	2.86	0.841	0.036	0.004	0.002	---	---	MAX
MIN	---	---	0	0	1.24	0.174	0.044	0.001	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.15
MAXIMUM DAILY, 154 ON APR 24
MINIMUM DAILY, 0.0 ON MAR 1
MAXIMUM INSTANTANEOUS,
182 AT 06:21 CST ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 09 30 N
LONG 100 20 00 W
DRAINAGE AREA, 888 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	875
FEB	---	AUG	26.3
MAR	0	SEP	2.42
APR	50 500	OCT	1.99
MAY	12 900	NOV	---
JUN	3 440	DEC	---

TOTAL DISCHARGE, 68 700 dam³

WINNIPEG RIVER AT LAC DU BONNET - STATION NO. 05PF052

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	254.964	---	---	---	---	---	---	---	---	---	254.933	254.972	1
2	254.974	---	---	---	---	---	---	---	---	254.938	254.933	254.977	2
3	254.979	---	---	---	---	---	---	---	---	254.898	254.900E	254.957	3
4	254.944	---	---	---	---	---	---	---	---	254.838	254.840E	254.937	4
5	254.966	---	---	---	---	---	---	---	---	254.790	254.803	254.927	5
6	254.984	---	---	---	---	---	---	---	---	254.738	254.763	254.897	6
7	255.014	---	---	---	---	---	---	---	---	254.528	254.803	254.857	7
8	254.989	---	---	---	---	---	---	---	---	254.548	254.813	254.857	8
9	254.974	---	---	---	---	---	---	---	---	254.578	254.808	254.847	9
10	254.954	---	---	---	---	---	---	---	---	254.833	254.803	254.882	10
11	254.924	---	---	---	---	---	---	---	---	254.678	254.818	254.867	11
12	254.964	---	---	---	---	---	---	---	---	254.828	254.898	254.887	12
13	254.996	---	---	---	---	---	---	---	---	254.828	254.903	254.922	13
14	255.034	---	---	---	---	---	---	---	---	254.832	254.958	254.947	14
15	255.042	---	---	---	---	---	---	---	---	254.838	254.988	254.987	15
16	255.036	---	---	---	---	---	---	---	---	254.868	254.958	254.947	16
17	255.024	---	---	---	---	---	---	---	---	254.913	254.938	---	17
18	254.981	---	---	---	---	---	---	---	---	254.913	254.918	---	18
19	254.958	---	---	---	---	---	---	---	---	254.880	254.898	---	19
20	254.948	---	---	---	---	---	---	---	---	254.884	254.928	---	20
21	254.894	---	---	---	---	---	---	---	---	254.886	254.948	---	21
22	255.084	---	---	---	---	---	---	---	---	254.888	254.938	---	22
23	255.114	---	---	---	---	---	---	---	---	254.888	254.858	---	23
24	255.004	---	---	---	---	---	---	---	---	254.870	254.528	---	24
25	254.978	---	---	---	---	---	---	---	---	254.870	254.858	254.887	25
26	254.904	---	---	---	---	---	---	---	---	254.845	254.938	---	26
27	254.854	---	---	---	---	---	---	---	---	254.838	254.928	---	27
28	254.887	---	---	---	---	---	---	---	---	254.403	254.857	---	28
29	254.954		---	---	---	---	---	---	---	254.733	254.987	---	29
30	---		---	---	---	---	---	---	---	254.784	254.947	---	30
31	---		---		---		---	---		254.998		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	254.892	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	254.987	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	254.763	---	MIN

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 15 35 N
LONG 95 03 20 W

E - ESTIMATED

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 360	1 210	1 100	1 080	722	563	505	585	480	472	807	918	1
2	1 320	1 190	1 070	1 080	762	559	560	640	462	317	774	948	2
3	1 350	1 130	1 070	1 070	736	545	534	612	433	584	895	931	3
4	1 350	1 120	1 060	1 060	673	453	571	607	449	513	773	906	4
5	1 350	1 130	1 100	1 080	704	521	566	600	406	540	761	924	5
6	1 400	1 130	1 110	1 080	685	458	584	539	416	534	734	910	6
7	1 380	1 140	1 110	1 080	652	471	613	557	454	567	893	898	7
8	1 370	1 140	1 100	1 040	601	485	593	565	444	525	725	914	8
9	1 350	1 150	1 060	1 050	569	485	620	576	462	568	909	914	9
10	1 350	1 180	1 060	1 040	562	512	630	545	459	575	758	909	10
11	1 340	1 180	1 070	1 040	570	435	605	528	388	557	787	918	11
12	1 310	1 160	1 070	1 040	585	505	590	559	430	556	804	926	12
13	1 300	1 140	1 060	1 010	545	533	646	552	414	572	788	927	13
14	1 310	1 100	1 060	973	544	501	655	497	463	587	822	939	14
15	1 280	1 120	1 060	969	571	451	627	543	477	584	813	943	15
16	1 260	1 130	1 080	954	534	498	660	520	477	607	825	944	16
17	1 230	1 130	1 070	951	554	505	632	572	448	598	848	938	17
18	1 200	1 150	1 060	951	510	514	628	526	394	641	847	944	18
19	1 180	1 120	1 040	951	513	471	614	551	482	644	821	910	19
20	1 220	1 110	1 020	953	534	567	624	519	457	651	828	922	20
21	1 280	1 110	987	945	535	546	636	511	488	650	848	918	21
22	1 360	1 080	988	933	511	537	624	464	435	631	862	923	22
23	1 420	1 100	988	861	501	542	627	520	470	659	875	929	23
24	1 340	1 100	994	821	522	495	620	515	478	741	885	905	24
25	1 290	1 100	1 020	829	538	517	589	498	428	720	910	896	25
26	1 260	1 100	1 050	779	502	469	642	498	428	774	902	913	26
27	1 240	1 150	1 050	761	485	522	638	484	474	758	897	921	27
28	1 220	1 120	1 070	777	512	481	622	444	425	768	916	937	28
29	1 240		1 080	774	502	521	571	480	515	780	912	917	29
30	1 220		1 100	755	499	543	535	458	536	784	916	895	30
31	1 200		1 080		544		535	483		792		932	31
TOTAL	40 290	31 720	32 837	28 587	17 775	15 165	18 898	15 488	13 930	19 228	25 164	28 552	TOTAL
MEAN	1 300	1 130	1 060	953	573	505	610	532	451	620	838	921	MEAN
MAX	1 420	1 210	1 110	1 080	782	587	890	640	536	792	916	948	MAX
MIN	1 180	1 080	987	755	485	435	505	444	388	317	725	895	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 780
MAXIMUM DAILY, 1 420 ON JAN 23
MINIMUM DAILY, 317 ON OCT 2

SUMMARY FOR THE YEAR 1983

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 50 13 30 N
LONG 95 34 15 W
DRAINAGE AREA, 125 000 km²

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	3 480 000	JUL	1 630 000
FEB	2 740 000	AUG	1 420 000
MAR	2 840 000	SEP	1 170 000
APR	2 480 000	OCT	1 660 000
MAY	1 540 000	NOV	2 170 000
JUN	1 310 000	DEC	2 470 000

TOTAL DISCHARGE, 24 900 000 dam³

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

WINNIPEG RIVER HEAD WATER SEVEN SISTERS POWER PLANT - STATION NO 05PF057

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	274.174	274.110	274.158	274.113	274.082	274.055	274.082	274.085	273.969	274.024	274.073	274.076	1
2	274.101	274.110	274.149	274.084	274.091	274.076	274.107	274.104	274.052	274.076	274.084	274.082	2
3	274.113	274.110	274.143	274.076	274.081	274.084	274.076	274.140	274.091	274.043	273.931	274.084	3
4	274.137	274.091	274.104	274.101	274.046	274.076	274.082	274.037	274.043	274.018	273.973	274.113	4
5	274.130	274.113	274.134	274.128	274.085	274.107	274.076	274.030	274.140	274.030	274.012	274.107	5
6	274.146	274.137	274.122	274.152	274.024	274.087	274.122	274.122	274.073	274.021	274.076	274.122	6
7	274.158	274.149	274.134	274.128	274.119	274.040	274.107	274.073	273.973	274.094	274.046	274.116	7
8	274.162	274.131	274.155	274.107	274.104	274.006	274.087	274.021	273.976	274.094	274.055	274.084	8
9	274.116	274.107	274.143	274.122	274.037	273.988	274.087	274.040	274.003	274.149	274.076	274.119	9
10	274.110	274.137	274.155	274.149	274.006	273.976	274.076	274.088	274.073	274.113	274.040	274.113	10
11	274.101	274.137	274.137	274.155	274.052	274.061	274.125	274.087	274.088	274.009	274.113	274.140	11
12	274.113	274.107	274.107	274.122	274.021	274.149	274.087	274.061	274.146	273.915	274.061	274.152	12
13	274.137	274.049	274.082	274.101	274.012	274.087	274.037	274.040	274.009	273.954	274.052	274.271	13
14	274.122	274.052	274.049	274.082	274.037	274.091	274.088	274.006	274.067	274.015	274.076	274.143	14
15	274.088	274.076	274.015	274.131	274.076	274.070	274.140	273.963	274.113	274.067	274.110	274.189	15
16	274.021	274.128	274.040	274.134	274.012	274.018	274.155	273.891	274.037	274.134	274.101	274.113	16
17	273.985	274.140	274.048	274.122	274.079	274.061	274.107	273.966	273.951	274.110	274.058	274.085	17
18	274.033	274.137	274.021	274.116	274.110	274.027	274.116	273.973	273.966	274.097	274.061	274.097	18
19	274.113	274.134	274.033	274.128	274.052	274.067	274.061	273.991	273.927	274.067	274.116	274.082	19
20	274.146	274.091	274.024	274.140	274.082	274.000	274.006	274.110	273.988	274.018	274.128	274.125	20
21	274.152	274.088	274.012	274.146	274.037	273.991	274.088	274.082	274.049	274.091	274.033	274.125	21
22	274.162	274.137	274.104	274.122	274.107	274.055	274.091	274.070	274.049	274.082	274.067	274.046	22
23	274.143	274.137	274.119	274.131	274.143	274.043	274.148	274.143	274.021	274.137	274.084	274.046	23
24	274.088	274.140	274.134	274.097	274.067	274.067	274.131	274.021	274.143	274.095	274.188	274.143	24
25	274.094	274.137	274.137	274.076	274.085	274.104	274.073	273.912	274.091	274.030	274.091	274.141	25
26	274.122	274.110	274.137	273.930	274.091	274.073	274.122	273.808	273.982	274.085	274.140	274.116	26
27	274.122	274.091	274.165	274.006	274.122	274.076	274.131	273.832	273.951	274.030	274.128	274.125	27
28	274.122	274.107	274.180	274.049	274.11[illegible]	274.076	274.082	274.033	274.091	273.991	274.091	274.140	28
29	274.149		274.162	274.085	274.14[illegible]	274.067	274.040	274.070	274.104	274.061	274.058	274.084	29
30	274.168		274.168	274.064	274.113	274.030	274.131	274.015	273.976	274.091	274.073	274.076	30
31	274.168		274.155		274.040		274.182	273.905		274.067		274.082	31
MEAN	274.119	274.114	274.111	274.104	274.072	274.056	274.097	274.026	274.038	274.058	274.074	274.112	MEAN
MAX	274.174	274.149	274.180	274.155	274.143	274.149	274.182	274.143	274.146	274.149	274.188	274.271	MAX
MIN	273.985	274.049	274.012	273.930	274.006	273.976	274.006	273.808	273.927	273.915	273.973	274.046	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 274.082
MAXIMUM DAILY, 274.271 ON DEC 13
MINIMUM DAILY, 273.808 ON AUG 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 07 10 N
LONG 96 00 50 W
DATA CONTRIBUTED BY -
MANITOBA HYDRO

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WINNIPEG RIVER TAILRACE, GREAT FALLS POWER PLANT - STATION NO 05PF048

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	231.105	231.029	230.825	230.889	230.347	229.810	229.380	229.929	229.597	231.416	230.337	230.337	1
2	231.252	231.089	230.798	230.889	230.118	229.746	229.787	230.057	229.033	229.185	230.325	230.432	2
3	231.224	231.032	230.825	230.888	230.200	229.703	229.708	229.777	229.021	229.798	230.310	230.639	3
4	231.108	230.883	230.828	230.886	230.158	229.481	229.652	229.837	229.036	229.914	230.328	230.523	4
5	231.048	230.840	230.825	230.874	230.100	229.585	229.673	229.822	229.548	229.941	230.218	230.490	5
6	231.096	230.779	230.825	230.874	230.173	229.783	229.789	229.661	229.862	230.063	230.181	230.252	6
7	231.182	230.770	230.825	230.834	229.498	229.734	229.761	229.432	229.645	230.118	229.993	230.382	7
8	231.249	230.776	230.810	230.776	229.755	229.804	229.990	229.725	229.609	229.496	230.081	230.395	8
9	231.252	230.770	230.703	230.785	230.246	229.719	229.959	229.737	229.588	229.240	230.130	230.374	9
10	231.200	230.764	230.697	230.785	230.026	229.746	229.895	229.837	229.182	229.767	230.273	230.383	10
11	231.048	230.859	230.697	230.784	229.825	229.210	229.813	229.743	229.158	229.911	230.026	230.237	11
12	230.958	230.862	230.709	230.706	229.889	229.106	229.764	229.737	229.542	229.996	230.081	230.365	12
13	230.941	231.020	230.697	230.648	229.888	229.645	229.773	229.399	229.371	230.066	229.993	230.362	13
14	230.971	231.014	230.703	230.670	229.700	229.935	229.885	229.382	229.502	229.786	230.087	230.465	14
15	231.002	230.910	230.691	230.636	229.490	229.649	229.783	229.853	229.645	229.569	230.325	230.392	15
16	231.020	230.816	230.688	230.612	229.764	229.703	229.906	229.883	229.728	229.600	230.237	230.514	16
17	231.038	230.734	230.734	230.612	229.642	229.554	230.036	229.765	229.545	229.923	230.237	230.417	17
18	231.002	230.687	230.604	230.627	229.575	229.429	229.813	229.755	229.396	229.990	230.334	230.520	18
19	230.904	230.688	230.798	230.673	229.947	229.484	229.763	229.630	229.734	229.914	230.347	230.539	19
20	230.871	230.758	230.779	230.663	230.203	229.822	229.990	229.322	229.737	229.884	230.243	230.435	20
21	230.885	230.888	230.728	230.657	229.901	229.865	229.968	229.347	229.649	229.866	230.313	230.420	21
22	230.987	230.895	230.654	230.660	229.594	229.972	229.935	229.770	229.661	229.713	230.523	230.436	22
23	231.243	230.818	230.566	230.411	229.935	229.862	229.639	229.758	229.652	230.100	230.343	230.411	23
24	231.383	230.734	230.423	230.590	229.837	229.786	229.706	229.758	229.148	230.148	230.337	230.328	24
25	231.297	230.663	230.568	230.462	229.816	229.490	230.030	229.889	229.264	230.145	230.243	230.331	25
26	231.188	230.676	230.581	230.374	229.819	229.200	229.850	229.556	229.969	230.038	230.347	230.282	26
27	231.023	230.728	230.581	230.282	229.639	229.828	229.694	229.231	229.850	230.265	230.420	230.382	27
28	230.782	230.813	230.639	230.243	229.176	229.866	229.889	229.246	229.749	230.328	230.456	230.365	28
29	230.764		230.682	230.182	229.560	229.713	229.816	229.656	229.831	230.292	230.498	230.420	29
30	230.764		230.663	230.209	229.898	229.787	229.615	229.703	229.981	229.841	230.383	230.337	30
31	230.874		230.703		229.959		229.551	229.697		229.935		230.478	31
MEAN	231.053	230.835	230.711	230.639	229.861	229.667	229.800	229.686	229.541	229.951	230.285	230.408	MEAN
MAX	231.383	231.099	230.828	230.889	230.347	229.972	230.036	230.057	229.981	231.416	230.523	230.639	MAX
MIN	230.764	230.663	330.423	230.182	229.176	229.106	229.380	229.231	229.021	229.185	229.993	230.237	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 230.198
MAXIMUM DAILY, 231.416 ON OCT 1
MINIMUM DAILY, 229.021 ON SEP 3

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 27 50 N
LONG 96 00 15 W
DATA CONTRIBUTED BY -
MANITOBA HYDRO

REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

198

WINTERING LAKE AT THICKET PORTAGE - STATION NO. 07TD002

DAILY WATER LEVEL IN METRES FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	181.420	181.338	181.264	181.222	181.210	181.858	181.899	181.887	181.877	181.891	181.878	181.898	1
2	181.416	181.338	181.263	181.212	181.212	181.890	181.885	181.868	181.859	181.886	181.870	181.884	2
3	181.408	181.330	181.262	181.213	181.214	181.918	181.882	181.886	181.870	181.886	181.858	181.873	3
4	181.415	181.335	181.256	181.213	181.215	181.961	181.886	181.888	181.874	181.880	181.857	181.886	4
5	181.412	181.331	181.261	181.212	181.221	181.980	181.893	181.886	181.882	181.880	181.854	181.857	5
6	181.407	181.332	181.260	181.213	181.225	181.975	181.837	181.835	181.853	181.798	181.835	181.848	6
7	181.404	181.335	181.264	181.210	181.230	181.975	181.829	181.834	181.838	181.786	181.849	181.853	7
8	181.401	181.336	181.265	181.207	181.238	181.903	181.836	181.811	181.838	181.787	181.855	181.857	8
9	181.399	181.318	181.262	181.205	181.251	181.895	181.830	181.800	181.821	181.785	181.846	181.847	9
10	181.394	181.322	181.260	181.201	181.277	181.898	181.810	181.793	181.807	181.778	181.839	181.847	10
11	181.387	181.318	181.260	181.198	181.300	182.006	181.810	181.790	181.802	181.782	181.831	181.846	11
12	181.384	181.300	181.263	181.193	181.315	182.001	181.818	181.780	181.858	181.773	181.828	181.840	12
13	181.378	181.311	181.262	181.194	181.339	182.003	181.823	181.778	181.857	181.783	181.830	181.839	13
14	181.380	181.303	181.256	181.194	181.353	182.006	181.819	181.767	181.850	181.783	181.829	181.837	14
15	181.377	181.300	181.256	181.194	181.384	182.007	181.821	181.764	181.855	181.788	181.830	181.835	15
16	181.375	181.298	181.255	181.190	181.381	182.002	181.832	181.762	181.853	181.788	181.817	181.834	16
17	181.376	181.287	181.260	181.187	181.405	182.002	181.878	181.734	181.861	181.782	181.818	181.834	17
18	181.366	181.287	181.260	181.189	181.427	181.992	181.904	181.722	181.868	181.746	181.823	181.833	18
19	181.376	181.281	181.268	181.190	181.448	181.985	181.921	181.746	181.732	181.735	181.822	181.835	19
20	181.368	181.278	181.267	181.192	181.468	181.976	181.927	181.738	181.736	181.732	181.826	181.830	20
21	181.361	181.285	181.238	181.181	181.500	181.971	181.934	181.740	181.757	181.726	181.825	181.833	21
22	181.362	181.295	181.235	181.193	181.525	181.968	181.939	181.734	181.763	181.723	181.822	181.831	22
23	181.364	181.291	181.232	181.192	181.547	181.963	181.936	181.727	181.785	181.721	181.819	181.823	23
24	181.358	181.278	181.232	181.191	181.569	181.961	181.936	181.721	181.787	181.717	181.819	181.815	24
25	181.361	181.278	181.233	181.193	181.591	181.957	181.929	181.704	181.793	181.713	181.821	181.498	25
26	181.361	181.281	181.229	181.196	181.616	181.933	181.926	181.700	181.795	181.705	181.816	181.490	26
27	181.363	181.277	181.227	181.197	181.649	181.930	181.923	181.694	181.805	181.704	181.813	181.482	27
28	181.368	181.270	181.226	181.201	181.683	181.918	181.916	181.692	181.809	181.697	181.811	181.473	28
29	181.364		181.224	181.204	181.734	181.909	181.916	181.690	181.809	181.682	181.810	181.483	29
30	181.369		181.225	181.206	181.778	181.908	181.903	181.831	181.807	181.675	181.805	181.483	30
31	181.337		181.224		181.821		181.894	181.676		181.680		181.488	31
MEAN	181.378	181.304	181.248	181.200	181.623	181.953	181.879	181.784	181.795	181.750	181.832	181.526	MEAN
MAX	181.420	181.338	181.268	181.222	181.828	182.007	181.939	181.887	181.809	181.804	181.870	181.898	MAX
MIN	181.337	181.270	181.224	181.187	181.210	181.858	181.810	181.676	181.821	181.675	181.805	181.488	MIN

SUMMARY FOR THE YEAR 1983

WATER LEVELS IN METRES

MEAN, 181.686
MAXIMUM DAILY, 182.007 ON JUN 15
MINIMUM DAILY, 181.187 ON APR 17
MAXIMUM INSTANTANEOUS,
182.012 AT 18.55 CST ON JUN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 19 25 N
LONG 97 40 04 W

NATURAL FLOW

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM (MAN. GOVT. EXT.)

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1983

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.4358	0.4828	45.6	13.0	6.96	11.5	1.00	5.78	---	---	1
2	---	---	0.4268	0.5058	40.7	11.8	8.29	10.4	1.01	5.44	---	---	2
3	---	---	0.4358	0.5208	36.3	12.0	20.3	8.42	0.954	5.20	---	---	3
4	---	---	0.4358	0.5358	33.3	14.4	48.7	6.88	1.02	5.04	---	---	4
5	---	---	0.4438	0.5618	29.7	15.3	86.7	7.94	1.34	4.97	---	---	5
6	---	---	0.4438	0.5798	27.2	14.8	84.7	7.35	1.74	4.81	---	---	6
7	---	---	0.4438	0.5978	25.2	14.6	35.0	6.45	2.35	5.03	---	---	7
8	---	---	0.4438	0.6338	22.8	15.3	28.4	5.63	2.69	4.81	---	---	8
9	---	---	0.4438	0.6068	21.8	14.9	24.4	5.02	2.88	4.81	---	---	9
10	---	---	0.4438	0.5358	22.0	14.0	22.1	4.67	3.88	4.82	---	---	10
11	---	---	0.4438	0.5288	24.8	12.9	20.8	3.92	4.78	4.78	---	---	11
12	---	---	0.4518	0.5708	23.6	13.4	18.8	3.80	5.26	4.72	---	---	12
13	---	---	0.4518	0.5768	20.6	27.9	17.7	3.84	5.23	4.74	---	---	13
14	---	---	0.4518	0.6048	23.7	20.5	15.8	3.70	5.14	4.80	---	---	14
15	---	---	0.4518	0.6048	29.7	18.4	18.0	3.81	5.29	4.69	---	---	15
16	---	---	0.4518	0.6928	29.3	15.5	32.3	3.21	5.28	4.35	---	---	16
17	---	---	0.4518	0.6248	30.3	14.5	24.4	2.80	5.81	4.13	---	---	17
18	---	---	0.4518	0.7188	29.6	12.8	22.3	2.44	5.83	3.93	---	---	18
19	---	---	0.4518	1.04 0	29.6	12.3	20.6	2.11	5.81	3.84	---	---	19
20	---	---	0.4598	1.15 0	28.6	12.2	28.7	1.94	5.30	3.83	---	---	20
21	---	---	0.4598	1.57 0	28.5	11.7	26.3	1.81	5.29	3.87	---	---	21
22	---	---	0.4598	3.35 0	27.9	10.7	23.3	1.83	5.66	3.73	---	---	22
23	---	---	0.4598	42.1 0	27.2	10.3	20.6	1.83	7.03	3.56	---	---	23
24	---	---	0.4598	100 0	25.5	9.81	18.0	1.90	7.36	3.54	---	---	24
25	---	---	0.4598	170 0	24.3	9.73	15.9	1.78	7.96	3.38	---	---	25
26	---	---	0.4598	139	22.5	9.87	15.1	3.19	7.50	3.25	---	---	26
27	---	---	0.4678	102	20.9	9.04	17.4	1.89	6.49	3.13	---	---	27
28	---	---	0.4678	70.4	18.4	8.20	15.2	1.48	6.88	3.12	---	---	28
29	---		0.4678	56.5	16.9	7.67	13.2	1.35	6.83	3.06	---	---	29
30	---		0.4678	98.0	15.2	8.94	12.5	1.19	6.24	3.88	---	---	30
31	---		0.4758		13.9		12.5	1.04		3.84		---	31
TOTAL	---	---	14.006	748.087	883.0	394.73	733.85	134.77	142.646	130.22	---	---	TOTAL
MEAN	---	---	0.452	24.9	27.2	13.2	23.7	4.02	4.75	4.20	---	---	MEAN
MAX	---	---	0.475	170	45.6	27.9	86.7	11.5	7.96	5.78	---	---	MAX
MIN	---	---	0.435	0.482	13.9	8.94	8.95	1.04	0.954	3.84	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.8
MAXIMUM DAILY, 1700 ON APR 25
MINIMUM DAILY, 0.4358 ON MAR 1

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 15 30 N
LONG 101 06 15 W
DRAINAGE AREA, 2 110 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	83 400
FEB	---	AUG	10 600
MAR	1 210	SEP	12 300
APR	64 800	OCT	11 200
MAY	72 800	NOV	---
JUN	34 100	DEC	---

TOTAL DISCHARGE, 271 000 dam³

NAME	STATION NO	PAGE
ANGLING RIVER NEAR BIRD	05UH001	1
ANTLER RIVER NEAR MELITA	05NF002	1
ARROW RIVER NEAR ARROW RIVER	05MC001	3
ASSINIBOINE RIVER AT HEADINGLEY	05MJ001	3
ASSINIBOINE RIVER NEAR BRANDON	05MH012	3
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POOR

QUALITY

ORIGINAL